
МЕЖГОСУДАРСТВЕННЫЙ СОВЕТ ПО СТАНДАРТИЗАЦИИ, МЕТРОЛОГИИ И СЕРТИФИКАЦИИ
(МГС)

INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION
(ISC)

МЕЖГОСУДАРСТВЕННЫЙ
СТАНДАРТ

ГОСТ
31818.11—
2012
(IEC 62052-11:2003)

**Аппаратура для измерения электрической энергии
переменного тока.**

Общие требования.

Испытания и условия испытаний

Часть 11

СЧЕТЧИКИ ЭЛЕКТРИЧЕСКОЙ ЭНЕРГИИ

(IEC 62052-11:2003, MOD)

Издание официальное



Москва
Стандартинформ
2013

Предисловие

Цели, основные принципы и порядок проведения работ по межгосударственной стандартизации установлены ГОСТ 1.0—92 «Межгосударственная система стандартизации. Основные положения» и ГОСТ 1.2—2009 «Межгосударственная система стандартизации. Стандарты межгосударственные, правила и рекомендации по межгосударственной стандартизации. Правила разработки, принятия, применения, обновления и отмены»

Сведения о стандарте

1 ПОДГОТОВЛЕН Федеральным государственным унитарным предприятием «Всероссийский научно-исследовательский институт стандартизации и сертификации в машиностроении» (ВНИИНМАШ)

2 ВНЕСЕН Федеральным агентством по техническому регулированию и метрологии

3 ПРИНЯТ Межгосударственным советом по стандартизации, метрологии и сертификации (протокол от 15 ноября 2012 г. № 42)

За принятие проголосовали:

Краткое наименование страны по МК (ИСО 3166) 004—97	Код страны по МК (ИСО 3166) 004—97	Сокращенное наименование национального органа по стандартизации
Беларусь	BY	Госстандарт Республики Беларусь
Казахстан	KZ	Госстандарт Республики Казахстан
Кыргызстан	KG	Кыргызстандарт
Российская Федерация	RU	Росстандарт
Таджикистан	TJ	Таджикстандарт
Узбекистан	UZ	Узстандарт

4 Приказом Федерального агентства по техническому регулированию и метрологии от 22 ноября 2012 г. № 1035-ст межгосударственный стандарт ГОСТ 31818.11—2012 введен в действие в качестве национального стандарта Российской Федерации с 1 января 2014 г.

5 Настоящий стандарт модифицирован по отношению к международному стандарту IEC 62052-11:2003 Electricity metering equipment (a.c.) — Particular general requirements — Tests and test conditions — Part 11: Meters for electric energy (Аппаратура для измерения электрической энергии (переменный ток). Общие требования. Испытания и условия испытаний. Часть 11. Счетчики электрической энергии). При этом дополнительные и измененные положения, учитывающие потребности национальной экономики Российской Федерации, выделены в тексте курсивом.

Международный стандарт разработан Международной электротехнической комиссией (МЭК).

Наименование настоящего стандарта изменено относительно наименования международного стандарта для приведения в соответствие с ГОСТ 1.5—2001 (пункт 3.6).

Сведения о соответствии межгосударственных стандартов ссылочным международным стандартам приведены в дополнительном приложении ДА.

Степень соответствия — модифицированная (MOD).

Стандарт подготовлен на основе применения ГОСТ Р 52320—2005

6 ВВЕДЕН ВПЕРВЫЕ

Информация о введении в действие (прекращении действия) настоящего стандарта публикуется в ежемесячно издаваемом информационном указателе «Национальные стандарты».

Информация об изменениях к настоящему стандарту публикуется в ежегодно издаваемом информационном указателе «Национальные стандарты», а текст изменений и поправок — в ежеме-

сячно издаваемых информационных указателях «Национальные стандарты». В случае пересмотра или отмены настоящего стандарта соответствующая информация будет опубликована в ежемесячно издаваемом информационном указателе «Национальные стандарты»

В Российской Федерации настоящий стандарт не может быть полностью или частично воспроизведен, тиражирован и распространен в качестве официального издания без разрешения Федерального агентства по техническому регулированию и метрологии

Section

1	Government
2	Non-Government
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114 The answer

114 The correct answer is **option A**. The correct answer is **option A**.

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- C. The correct answer is **option C**.
- D. The correct answer is **option D**.

The correct answer is **option A**.

The correct answer is **option A**.

- 113) [неопределенный артикль] Система [исполнителя] [технических характеристик] [серийный номер] [тип] [исполнитель].
- 114) [неопределенный артикль] [технических характеристик] [серийный номер] [тип] [исполнитель].
- 115) [неопределенный артикль] [тип] [исполнитель].
- 116) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 117) [неопределенный артикль] [тип] [исполнитель].
- 118) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 119) [неопределенный артикль] [тип] [исполнитель].
- 120) [неопределенный артикль] [серийный номер] [тип] [исполнитель].

121) [неопределенный артикль] [серийный номер] [тип] [исполнитель].

12. Назначение системы связи

- 121) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 122) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 123) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 124) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 125) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 126) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 127) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 128) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 129) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 130) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 131) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 132) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 133) [неопределенный артикль] [серийный номер] [тип] [исполнитель].
- 134) [неопределенный артикль] [серийный номер] [тип] [исполнитель].

4.2. Theoretical Input-Output (Theoretical) Table

The theoretical input-output table is presented in Table 4.2.1.

Table 4.2.1: Theoretical Input-Output Table

Product	Intermediate	Final
Intermediate	1000	0
Final	0	1000

4.3. Theoretical Input-Output Table

The theoretical input-output table is presented in Table 4.2.1. The table shows the relationship between the intermediate and final products. The total output of the intermediate product is 1000, and the total output of the final product is 1000.

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4.4. Theoretical Input-Output Table

The theoretical input-output table is presented in Table 4.2.1.

4. Theoretical Input-Output Table

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- 1. Intermediate
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The theoretical input-output table is presented in Table 4.2.1.

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1. The first part of the question asks you to identify the correct answer for the question based on the information given in the passage.

2. The second part of the question asks you to identify the correct answer for the question based on the information given in the passage.

3. The third part of the question asks you to identify the correct answer for the question based on the information given in the passage.

4. The fourth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

5. The fifth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

6. The sixth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

7. The seventh part of the question asks you to identify the correct answer for the question based on the information given in the passage.

8. The eighth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

9. The ninth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

10. The tenth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

11. The eleventh part of the question asks you to identify the correct answer for the question based on the information given in the passage.

12. The twelfth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

13. The thirteenth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

14. The fourteenth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

15. The fifteenth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

16. The sixteenth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

17. The seventeenth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

18. The eighteenth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

19. The nineteenth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

20. The twentieth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

21. The twenty-first part of the question asks you to identify the correct answer for the question based on the information given in the passage.

22. The twenty-second part of the question asks you to identify the correct answer for the question based on the information given in the passage.

23. The twenty-third part of the question asks you to identify the correct answer for the question based on the information given in the passage.

24. The twenty-fourth part of the question asks you to identify the correct answer for the question based on the information given in the passage.

Table 1 (continued)

Notes: All variables are measured in US dollars unless otherwise specified. All variables are measured in US dollars unless otherwise specified. All variables are measured in US dollars unless otherwise specified. All variables are measured in US dollars unless otherwise specified.

Variable	Description	2008-2010		2011-2013	
		Mean	SD	Mean	SD
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Variable	Description	2008-2010		2011-2013	
		Mean	SD	Mean	SD
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Table 2 (continued)

Notes: All variables are measured in US dollars unless otherwise specified. All variables are measured in US dollars unless otherwise specified. All variables are measured in US dollars unless otherwise specified. All variables are measured in US dollars unless otherwise specified.

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24) (1) (a) (i) (b) (iii) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (r) (s) (t) (u) (v) (w) (x) (y) (z) (aa) (ab) (ac) (ad) (ae) (af) (ag) (ah) (ai) (aj) (ak) (al) (am) (an) (ao) (ap) (aq) (ar) (as) (at) (au) (av) (aw) (ax) (ay) (az) (ba) (bb) (bc) (bd) (be) (bf) (bg) (bh) (bi) (bj) (bk) (bl) (bm) (bn) (bo) (bp) (bq) (br) (bs) (bt) (bu) (bv) (bw) (bx) (by) (bz) (ca) (cb) (cc) (cd) (ce) (cf) (cg) (ch) (ci) (cj) (ck) (cl) (cm) (cn) (co) (cp) (cq) (cr) (cs) (ct) (cu) (cv) (cw) (cx) (cy) (cz) (da) (db) (dc) (dd) (de) (df) (dg) (dh) (di) (dj) (dk) (dl) (dm) (dn) (do) (dp) (dq) (dr) (ds) (dt) (du) (dv) (dw) (dx) (dy) (dz) (ea) (eb) (ec) (ed) (ee) (ef) (eg) (eh) (ei) (ej) (ek) (el) (em) (en) (eo) (ep) (eq) (er) (es) (et) (eu) (ev) (ew) (ex) (ey) (ez) (fa) (fb) (fc) (fd) (fe) (ff) (fg) (fh) (fi) (fj) (fk) (fl) (fm) (fn) (fo) (fp) (fq) (fr) (fs) (ft) (fu) (fv) (fw) (fx) (fy) (fz) (ga) (gb) (gc) (gd) (ge) (gf) (gg) (gh) (gi) (gj) (gk) (gl) (gm) (gn) (go) (gp) (gq) (gr) (gs) (gt) (gu) (gv) (gw) (gx) (gy) (gz) (ha) (hb) (hc) (hd) (he) (hf) (hg) (hh) (hi) (hj) (hk) (hl) (hm) (hn) (ho) (hp) (hq) (hr) (hs) (ht) (hu) (hv) (hw) (hx) (hy) (hz) (ia) (ib) (ic) (id) (ie) (if) (ig) (ih) (ii) (ij) (ik) (il) (im) (in) (io) (ip) (iq) (ir) (is) (it) (iu) (iv) (iw) (ix) (iy) (iz) (ja) (jb) (jc) (jd) (je) (jf) (jg) (jh) (ji) (jj) (jk) (jl) (jm) (jn) (jo) (jp) (jq) (jr) (js) (jt) (ju) (jv) (jw) (jx) (jy) (jz) (ka) (kb) (kc) (kd) (ke) (kf) (kg) (kh) (ki) (kj) (kk) (kl) (km) (kn) (ko) (kp) (kq) (kr) (ks) (kt) (ku) (kv) (kw) (kx) (ky) (kz) (la) (lb) (lc) (ld) (le) (lf) (lg) (lh) (li) (lj) (lk) (ll) (lm) (ln) (lo) (lp) (lq) (lr) (ls) (lt) (lu) (lv) (lw) (lx) (ly) (lz) (ma) (mb) (mc) (md) (me) (mf) (mg) (mh) (mi) (mj) (mk) (ml) (mm) (mn) (mo) (mp) (mq) (mr) (ms) (mt) (mu) (mv) (mw) (mx) (my) (mz) (na) (nb) (nc) (nd) (ne) (nf) (ng) (nh) (ni) (nj) (nk) (nl) (nm) (nn) (no) (np) (nq) (nr) (ns) (nt) (nu) (nv) (nw) (nx) (ny) (nz) (oa) (ob) (oc) (od) (oe) (of) (og) (oh) (oi) (oj) (ok) (ol) (om) (on) (oo) (op) (oq) (or) (os) (ot) (ou) (ov) (ow) (ox) (oy) (oz) (pa) (pb) (pc) (pd) (pe) (pf) (pg) (ph) (pi) (pj) (pk) (pl) (pm) (pn) (po) (pp) (pq) (pr) (ps) (pt) (pu) (pv) (pw) (px) (py) (pz) (qa) (qb) (qc) (qd) (qe) (qf) (qg) (qh) (qi) (qj) (qk) (ql) (qm) (qn) (qo) (qp) (qq) (qr) (qs) (qt) (qu) (qv) (qw) (qx) (qy) (qz) (ra) (rb) (rc) (rd) (re) (rf) (rg) (rh) (ri) (rj) (rk) (rl) (rm) (rn) (ro) (rp) (rq) (rr) (rs) (rt) (ru) (rv) (rw) (rx) (ry) (rz) (sa) (sb) (sc) (sd) (se) (sf) (sg) (sh) (si) (sj) (sk) (sl) (sm) (sn) (so) (sp) (sq) (sr) (ss) (st) (su) (sv) (sw) (sx) (sy) (sz) (ta) (tb) (tc) (td) (te) (tf) (tg) (th) (ti) (tj) (tk) (tl) (tm) (tn) (to) (tp) (tq) (tr) (ts) (tt) (tu) (tv) (tw) (tx) (ty) (tz) (ua) (ub) (uc) (ud) (ue) (uf) (ug) (uh) (ui) (uj) (uk) (ul) (um) (un) (uo) (up) (uq) (ur) (us) (ut) (uu) (uv) (uw) (ux) (uy) (uz) (va) (vb) (vc) (vd) (ve) (vf) (vg) (vh) (vi) (vj) (vk) (vl) (vm) (vn) (vo) (vp) (vq) (vr) (vs) (vt) (vu) (vv) (vw) (vx) (vy) (vz) (wa) (wb) (wc) (wd) (we) (wf) (wg) (wh) (wi) (wj) (wk) (wl) (wm) (wn) (wo) (wp) (wq) (wr) (ws) (wt) (wu) (wv) (ww) (wx) (wy) (wz) (xa) (xb) (xc) (xd) (xe) (xf) (xg) (xh) (xi) (xj) (xk) (xl) (xm) (xn) (xo) (xp) (xq) (xr) (xs) (xt) (xu) (xv) (xw) (xx) (xy) (xz) (ya) (yb) (yc) (yd) (ye) (yf) (yg) (yh) (yi) (yj) (yk) (yl) (ym) (yn) (yo) (yp) (yq) (yr) (ys) (yt) (yu) (yv) (yw) (yx) (yy) (yz) (za) (zb) (zc) (zd) (ze) (zf) (zg) (zh) (zi) (zj) (zk) (zl) (zm) (zn) (zo) (zp) (zq) (zr) (zs) (zt) (zu) (zv) (zw) (zx) (zy) (zz)

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1.1.2. **1200 (2004 01 01)**

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1.1.9. **1200 (2004 01 01)**

1.1.10. **1200 (2004 01 01)**

1.1.11. **1200 (2004 01 01)**

1.1.12. **1200 (2004 01 01)**

1.1.13. **1200 (2004 01 01)**

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1.1.15. **1200 (2004 01 01)**

1.1.16. **1200 (2004 01 01)**

1.1.17. **1200 (2004 01 01)**

Table 1: Summary of Results

Category	Sub-category	Value
Overall	Mean	1.5
	Standard Deviation	0.8
Group A	Mean	1.2
	Standard Deviation	0.6
Group B	Mean	1.8
	Standard Deviation	1.0
Group C	Mean	1.4
	Standard Deviation	0.7

The data presented in Table 1 shows that the overall mean is 1.5 with a standard deviation of 0.8. The results for Group A, Group B, and Group C are also provided. The standard deviations for each group are 0.6, 1.0, and 0.7, respectively.

- 1. Overall Mean: 1.5
- 2. Overall Standard Deviation: 0.8
- 3. Group A Mean: 1.2
- 4. Group A Standard Deviation: 0.6
- 5. Group B Mean: 1.8
- 6. Group B Standard Deviation: 1.0
- 7. Group C Mean: 1.4
- 8. Group C Standard Deviation: 0.7

The data presented in Table 1 shows that the overall mean is 1.5 with a standard deviation of 0.8. The results for Group A, Group B, and Group C are also provided. The standard deviations for each group are 0.6, 1.0, and 0.7, respectively.

1. Introduction

1.1. Scope and Purpose

The purpose of this document is to provide a clear and concise overview of the project's objectives, scope, and deliverables. It is intended for the project sponsor, steering committee, and other stakeholders involved in the project.

The document serves as a communication tool to ensure that all project participants have a shared understanding of the project's goals and direction.

This document is a high-level overview and does not contain detailed project information. For more details, please refer to the project charter and other project management documents.

The document is intended to be updated as the project progresses and new information becomes available.

The document is subject to change without notice.

2. Project Background

2.1. Business Case/Justification

The project is being initiated to address a specific business need or opportunity. The business case for the project is as follows:

The project is expected to deliver the following benefits:

Benefit Area	Estimated Value	
	Short-Term	Long-Term
Cost Savings	€ 1,200,000	€ 5,000,000
Revenue Increase	€ 800,000	€ 3,000,000
Risk Reduction	€ 500,000	€ 2,000,000
Customer Satisfaction	High	Medium
Employee Productivity	High	Medium
Market Share	High	Medium
Brand Reputation	High	Medium
Strategic Alignment	High	Medium
Overall Project Value	€ 2,500,000	€ 10,000,000

The project is expected to deliver significant value to the organization and its stakeholders. The project is a high-priority initiative and is being managed as a strategic project.

2.2. Key Stakeholders

The project is being managed by the Project Manager, who is responsible for the overall success of the project. The Project Manager is supported by a project team consisting of various experts and specialists.

The project is being managed in accordance with the following principles:

Principle	Description
Transparency	Open communication and reporting of project progress and risks.
Accountability	Clear roles and responsibilities for all project participants.
Collaboration	Working together to achieve the project's common goals.
Flexibility	Adapting to changes and challenges as the project progresses.

3. Statistical Inference

3.1. Descriptive Statistics

3.1.1. Measures of Central Tendency

Measure	Formula
Mean	$\bar{x} = \frac{\sum x_i}{n}$
Median	$\frac{n+1}{2}$ th observation
Mode	Most frequent value
Range	$x_{max} - x_{min}$
Standard Deviation	$\sigma = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n}}$

3.1.2. Measures of Dispersion

3.1.2.1. Variance: The average of the squared deviations from the mean. It is denoted by σ^2 .

$$\sigma^2 = \frac{\sum (x_i - \bar{x})^2}{n}$$

3.1.2.2. Standard Deviation

3.1.2.2.1. Population Standard Deviation

3.1.2.2.2. Sample Standard Deviation

3.1.2.2.3. Properties of Standard Deviation

3.1.2.2.4. Standard Deviation of a Constant

3.1.2.2.5. Standard Deviation of a Linear Function

3.1.2.2.6. Standard Deviation of a Sum of Independent Variables

3.1.2.2.7. Standard Deviation of a Difference of Independent Variables

3.1.2.2.8. Standard Deviation of a Product of Independent Variables

3.1.2.2.9. Standard Deviation of a Quotient of Independent Variables

3.1.2.2.10. Standard Deviation of a Power of Independent Variables

3.1.2.2.11. Standard Deviation of a Root of Independent Variables

3.1.2.2.12. Standard Deviation of a Logarithm of Independent Variables

3.1.2.2.13. Standard Deviation of an Exponential of Independent Variables

3.1.2.2.14. Standard Deviation of a Sine of Independent Variables

3.1.2.2.15. Standard Deviation of a Cosine of Independent Variables

3.1.2.2.16. Standard Deviation of a Tangent of Independent Variables

3.1.2.2.17. Standard Deviation of a Secant of Independent Variables

3.1.2.2.18. Standard Deviation of a Cosecant of Independent Variables

3.1.2.2.19. Standard Deviation of a Cotangent of Independent Variables

11.1.1.1

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = \frac{1}{2}x^2 + 3x - 5$ gegeben. Bestimmen Sie die Nullstellen von f .

11.1.1.2

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 4x + 4$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 6x + 9$ gegeben. Bestimmen Sie die Nullstellen von f .

11.1.1.3

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 8x + 16$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 10x + 25$ gegeben. Bestimmen Sie die Nullstellen von f .

11.1.1.4

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 12x + 36$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 14x + 49$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 16x + 64$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 18x + 81$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 20x + 100$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 22x + 121$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 24x + 144$ gegeben. Bestimmen Sie die Nullstellen von f .

11.1.1.5

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 26x + 169$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 28x + 196$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 30x + 225$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 32x + 256$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 34x + 289$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 36x + 324$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 38x + 361$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 40x + 400$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 42x + 441$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 44x + 484$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 46x + 529$ gegeben. Bestimmen Sie die Nullstellen von f .

Die Funktion $f: \mathbb{R} \rightarrow \mathbb{R}$ ist durch $f(x) = x^2 - 48x + 576$ gegeben. Bestimmen Sie die Nullstellen von f .

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Year	2010	2011	2012	2013	2014	2015	2016	2017	2018
Revenue	1000	1100	1200	1300	1400	1500	1600	1700	1800
Expenses	800	850	900	950	1000	1050	1100	1150	1200
Profit	200	250	300	350	400	450	500	550	600

The following table shows the results of the company's operations for the year 2018. The company has achieved a significant increase in revenue and profit compared to the previous year.

1.1. Financial Performance

The company's financial performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

The company's financial performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

The company's financial performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

1.2. Operational Performance

The company's operational performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

The company's operational performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

1.3. Human Resources

The company's human resources performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

The company's human resources performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

1.4. Customer Satisfaction

The company's customer satisfaction performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

The company's customer satisfaction performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

The company's customer satisfaction performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

1.5. Environmental Impact

The company's environmental impact performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

The company's environmental impact performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

The company's environmental impact performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

1.6. Social Responsibility

The company's social responsibility performance for the year 2018 is summarized in the following table. The company has achieved a significant increase in revenue and profit compared to the previous year.

1. **Сформулируйте и запишите краткое определение**
логического следствия и логического эквивалентности.
Вопросы:
1) Что такое логическое следствие?
2) Что такое логическая эквивалентность?

2. **Запишите таблицу истинности для логического следствия и логической эквивалентности.**
Вопросы:
1) Какую таблицу истинности имеет логическое следствие?
2) Какую таблицу истинности имеет логическая эквивалентность?

3. **Найдите все истинные высказывания.**
Вопросы:
1) Какое высказывание истинно?
2) Какое высказывание ложно?

4. **Запишите формулы логического следствия и логической эквивалентности.**
Вопросы:
1) Какая формула логического следствия?
2) Какая формула логической эквивалентности?

5. **Докажите логическое следствие и логическую эквивалентность.**
Вопросы:
1) Как доказать логическое следствие?
2) Как доказать логическую эквивалентность?

6. **Найдите все истинные высказывания.**
Вопросы:
1) Какое высказывание истинно?
2) Какое высказывание ложно?

7. **Запишите формулы логического следствия и логической эквивалентности.**
Вопросы:
1) Какая формула логического следствия?
2) Какая формула логической эквивалентности?

8. **Докажите логическое следствие и логическую эквивалентность.**
Вопросы:
1) Как доказать логическое следствие?
2) Как доказать логическую эквивалентность?

1. $\int_0^1 x^2 dx = \frac{1}{3}$

2. $\int_0^1 x^3 dx = \frac{1}{4}$

3. $\int_0^1 x^4 dx = \frac{1}{5}$

4. $\int_0^1 x^5 dx = \frac{1}{6}$

5. $\int_0^1 x^6 dx = \frac{1}{7}$

6. $\int_0^1 x^7 dx = \frac{1}{8}$

7. $\int_0^1 x^8 dx = \frac{1}{9}$

8. $\int_0^1 x^9 dx = \frac{1}{10}$

9. $\int_0^1 x^{10} dx = \frac{1}{11}$

10. $\int_0^1 x^{11} dx = \frac{1}{12}$

11. $\int_0^1 x^{12} dx = \frac{1}{13}$

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25. $\int_0^1 x^{26} dx = \frac{1}{27}$

26. $\int_0^1 x^{27} dx = \frac{1}{28}$

27. $\int_0^1 x^{28} dx = \frac{1}{29}$

28. $\int_0^1 x^{29} dx = \frac{1}{30}$

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1.100 (2002) (1-100) (Continued)

1.100 (2002) (1-100) (Continued)

1.100 (2002)

- (1) **General rule.**
- (2) **Exception for certain cases.**
- (3) **Exception for certain cases.**

1.100 (2002) (1-100)

- (1) **General rule.**
- (2) **Exception for certain cases.**
- (3) **Exception for certain cases.**

1.100 (2002) (1-100) (Continued)

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QUESTION

QUESTION



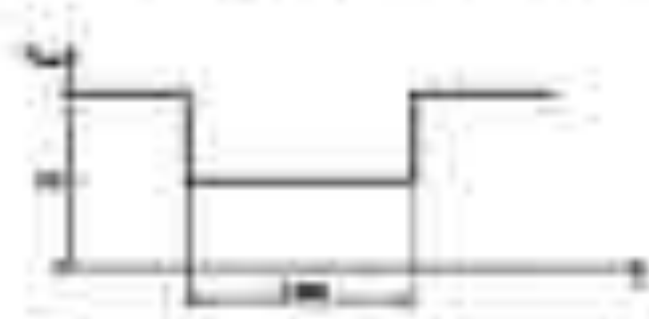
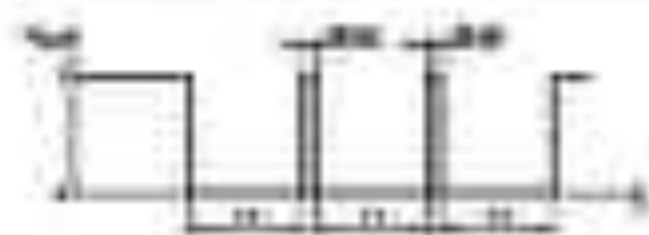
QUESTION

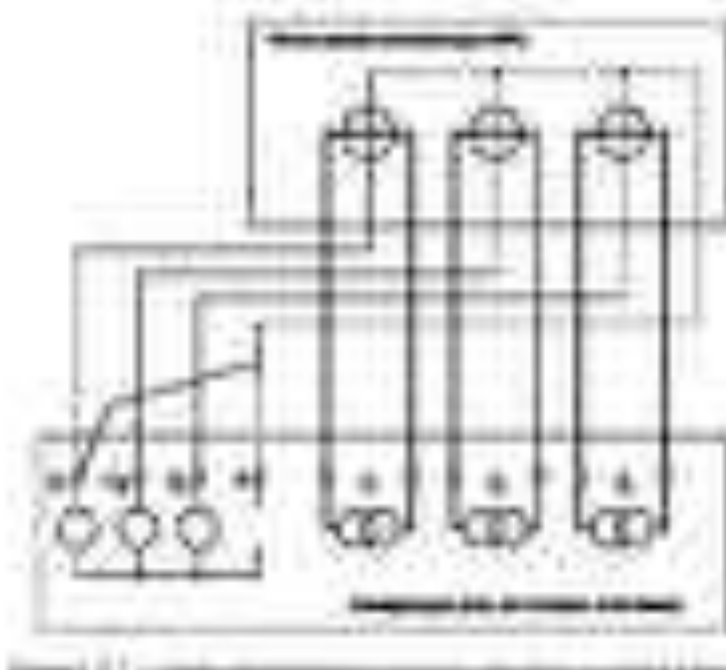
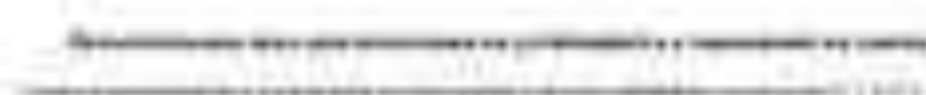
QUESTION

QUESTION 1

Figure 1 shows the cross-section of a beam of length L and height h . The beam is supported by a pin support at A and a roller support at B . The beam is subjected to a uniformly distributed load w acting downwards over the entire length of the beam. The beam is also subjected to a point load P acting downwards at the midpoint of the beam, $x = L/2$. The beam is also subjected to a point load Q acting downwards at the right end of the beam, $x = L$.

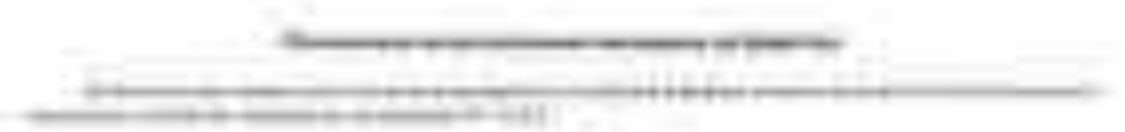
Draw the shear force diagram and the bending moment diagram for the beam. Indicate the maximum and minimum values of the shear force and the bending moment.





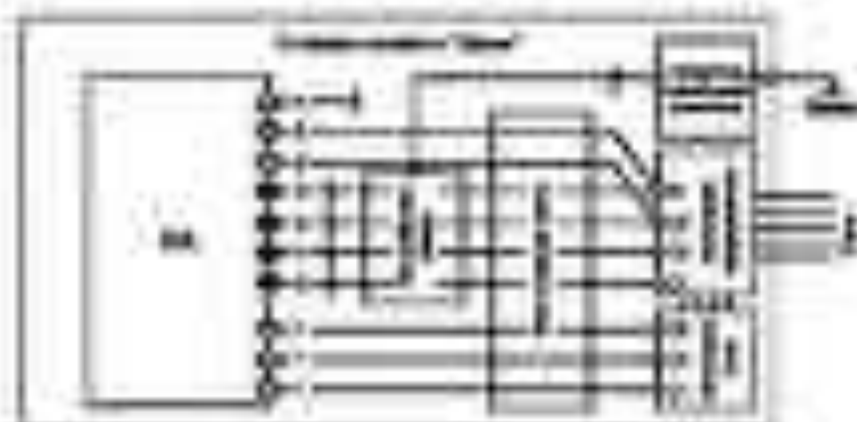
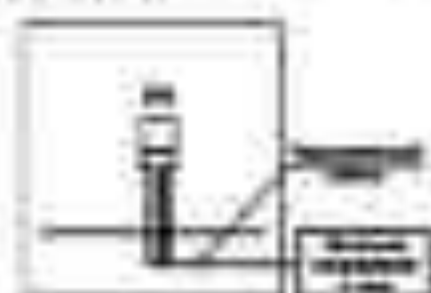
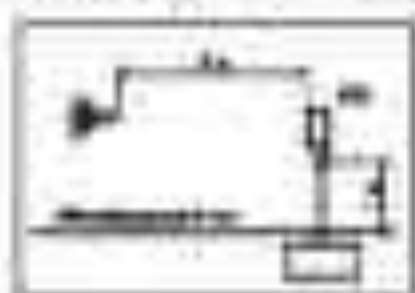
QUESTION 1

1.1.1.1



1.1.1.2





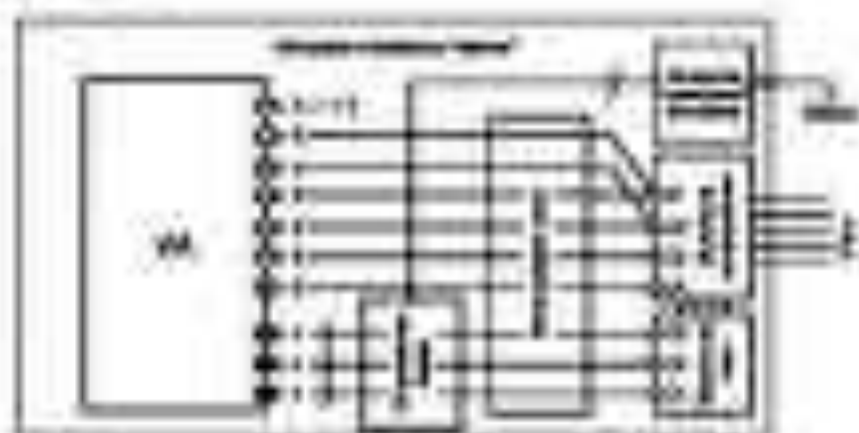


Figure 1: Schematic diagram of the control system.

Figure 2: Schematic diagram of the control system.

Figure 3: Schematic diagram of the control system.

2019-2020

2019-2020

2019-2020	2019-2020	2019-2020	
		2019-2020	2019-2020
1. 2019-2020	100		
2. 2019-2020	100		
3. 2019-2020	100		
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91. 2019-2020	100		
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94. 2019-2020	100		
95. 2019-2020	100		
96. 2019-2020	100		
97. 2019-2020	100		
98. 2019-2020	100		
99. 2019-2020	100		
100. 2019-2020	100		

2020 (2019) Financial Statements

Notes to Financial Statements

Description	2020	2019	
		2019	2018
Accounts receivable	100		
Accounts payable	100		
Inventory	100		
Prepaid expenses	100		
Property, plant and equipment	1000		
Accumulated depreciation	(100)		
Long-term debt	1000		
Equity	1000		
Retained earnings	100		
Other	100		
Total	2000	2000	2000

CLARVILLE, MISSOURI, FEBRUARY 2020

Table 1. Summary of the 2019-2020 Budget

Category	2019-2020 Budget	2018-2019 Budget
1. General Fund	100.0	100.0
2. State	100.0	100.0
3. Federal	100.0	100.0
4. Other	100.0	100.0
5. Total	400.0	400.0
6. Total	400.0	400.0
7. Total	400.0	400.0
8. Total	400.0	400.0
9. Total	400.0	400.0
10. Total	400.0	400.0
11. Total	400.0	400.0
12. Total	400.0	400.0
13. Total	400.0	400.0
14. Total	400.0	400.0
15. Total	400.0	400.0
16. Total	400.0	400.0
17. Total	400.0	400.0
18. Total	400.0	400.0
19. Total	400.0	400.0
20. Total	400.0	400.0
21. Total	400.0	400.0
22. Total	400.0	400.0
23. Total	400.0	400.0
24. Total	400.0	400.0
25. Total	400.0	400.0
26. Total	400.0	400.0
27. Total	400.0	400.0
28. Total	400.0	400.0
29. Total	400.0	400.0
30. Total	400.0	400.0
31. Total	400.0	400.0
32. Total	400.0	400.0
33. Total	400.0	400.0
34. Total	400.0	400.0
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89. Total	400.0	400.0
90. Total	400.0	400.0
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96. Total	400.0	400.0
97. Total	400.0	400.0
98. Total	400.0	400.0
99. Total	400.0	400.0
100. Total	400.0	400.0

1997-1998

Item	Unit	Value
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QUESTION

- 11. Which of the following is the most likely result of a decrease in the price of a good?
 - a. A decrease in the quantity demanded.
 - b. A decrease in the price of the good.
 - c. An increase in the quantity demanded.
 - d. An increase in the price of the good.
- 12. Which of the following is the most likely result of a decrease in the price of a good?
 - a. A decrease in the quantity demanded.
 - b. A decrease in the price of the good.
 - c. An increase in the quantity demanded.
 - d. An increase in the price of the good.
- 13. Which of the following is the most likely result of a decrease in the price of a good?
 - a. A decrease in the quantity demanded.
 - b. A decrease in the price of the good.
 - c. An increase in the quantity demanded.
 - d. An increase in the price of the good.
- 14. Which of the following is the most likely result of a decrease in the price of a good?
 - a. A decrease in the quantity demanded.
 - b. A decrease in the price of the good.
 - c. An increase in the quantity demanded.
 - d. An increase in the price of the good.
- 15. Which of the following is the most likely result of a decrease in the price of a good?
 - a. A decrease in the quantity demanded.
 - b. A decrease in the price of the good.
 - c. An increase in the quantity demanded.
 - d. An increase in the price of the good.

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

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Section 179D - Energy Efficient Buildings (EUB) Credit

Year	Amount	Percentage
2009	\$100,000,000	100%
2010	\$100,000,000	100%
2011	\$100,000,000	100%
2012	\$100,000,000	100%
2013	\$100,000,000	100%
2014	\$100,000,000	100%
2015	\$100,000,000	100%
2016	\$100,000,000	100%
2017	\$100,000,000	100%
2018	\$100,000,000	100%
2019	\$100,000,000	100%
2020	\$100,000,000	100%
2021	\$100,000,000	100%
2022	\$100,000,000	100%
2023	\$100,000,000	100%
2024	\$100,000,000	100%
2025	\$100,000,000	100%
2026	\$100,000,000	100%
2027	\$100,000,000	100%
2028	\$100,000,000	100%
2029	\$100,000,000	100%
2030	\$100,000,000	100%

Section 179D - Energy Efficient Buildings (EUB) Credit