

O‘zbekiston Respublikasi
Maktabgacha va maktab ta’limi vazirligi
2024-2025 o‘quv yili
I-chorak
choraklik summativ baholash
test savollari.
9-sinf
1-variant

1-20 matematika, 21-35 ingliz tili, 36-50 fizika
(B-bilish; Q-qo‘llash; M-mulohaza ga oid test savollari)

O‘quvchi(F.I.SH).....

1. (B 1 ball) Parabola uchining koordinatalarini toping.

$$y = x^2 - 8x$$

A) (4; 16) B) (4; -16) C) (-4; -16) D) (-4; 16)

2. (B 1 ball) Kvadrat tengsizlikni yeching:

$$x^2 - 16 < 0$$

A) (-8; 8) B) (-2; 4) C) (-4; 2) D) (-4; 4)

3. (B 1 ball) Kvadrat tengsizlikni yeching:

$$\frac{x + 7}{x - 12} \geq 0$$

A) $(-\infty; -7] \cup (12; \infty)$ B) $(-\infty; -7) \cup (12; \infty)$

C) $(-\infty; -7] \cup [12; \infty)$ D) $(-\infty; -7) \cup [12; \infty)$

4. (Q 4 ball) Agar parabolaning (2; 1) nuqta orqali o‘tishi va uning uchi (1; 2) nuqtada bo‘lishi ma’lum bo‘lsa, parabolaning tenglamasini toping.

A) $y = -x^2 - 2x - 1$ B) $y = -x^2 + 2x + 1$

C) $y = -x^2 - 2x + 2$ D) $y = -x^2 + 2x + 2$

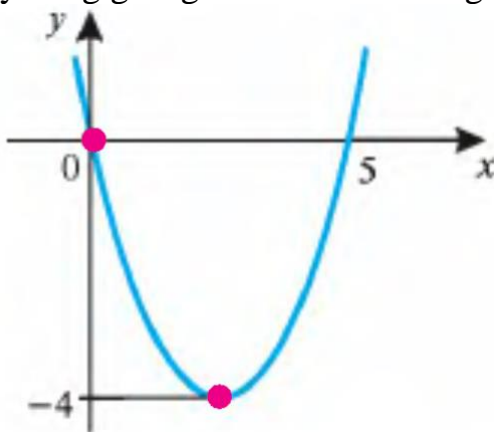
5. (Q 4 ball) $y = ax^2 + bx + c$ kvadrat funksiya grafigi parabolaning tarmoqlari yuqoriga yo‘nalgan, uning uchining absissasi ham, ordinatasi ham musbat bo‘lsa, a , b va c koeffitsiyentlarning ishorasi uchun keltirilgan to‘g‘ri moslikni toping.

I. a ning ishorasi	A. musbat
II. b ning ishorasi	B. manfiy
III. c ning ishorasi	

A) I-A; II-A; III-A B) I-B; II-B; III-A

C) I-A; II-B; III-A D) I-A; II-B; III-B

6. (Q 4 ball) Kvadrat funksiyaning grafigi rasmda tasvirlangan.

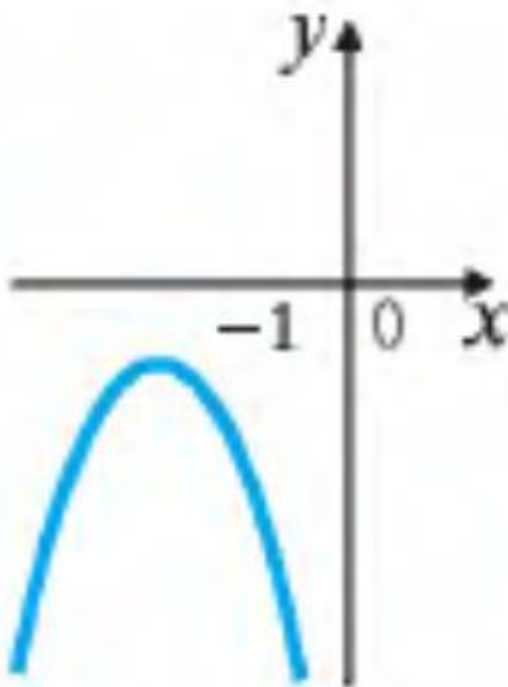


Bu kvadrat funksiya uchun quyidagi tasdiqlarning to'g'ri yoki noto'g'ri ekanligini aniqlang.

No	Tasdiqlar	to'g'ri	noto'g'ri
1	Bu kvadrat funksiyaning eng kichik qiymati -4 ga teng		
2	Bu kvadrat funksiyaning $x = 0$ dagi qiymati 0 ga teng		
3	Bu kvadrat funksiyaning $x = 5$ dagi qiymati 0 ga teng		

- A) to'g'ri, to'g'ri, to'g'ri; B) to'g'ri, noto'g'ri, noto'g'ri;
 C) to'g'ri, noto'g'ri, to'g'ri; D) to'g'ri, to'g'ri, noto'g'ri;

7. (Q 4 ball) $y = ax^2 + bx + c$ kvadrat funksiya grafigi rasmda tasvirlangan.



Rasmdan foydalanib, $ax^2 + bx + c < 0$ tengsizlik yechimini toping.

- A) $(-\infty; \infty)$ B) $(-\infty; -1)$ C) $(-1; \infty)$ D) \emptyset

8. (Q 4 ball) Tengsizlikni yeching:

$$\frac{x^2 + 8x + 12}{x + 3} \geq 0$$

- A) $[-6; -2] \cup (3; \infty)$ B) $[-6; 2) \cup [3; \infty)$
 C) $[-6; -3) \cup [-2; \infty)$ D) $(-\infty; -6] \cup (-3; -2]$

9. (Q 4 ball) Funksiyaning aniqlanish sohasini toping:

$$y = \sqrt{5x^2 - 15x}$$

- A) $[0; 3]$ B) $(-\infty; 0] \cup [3; \infty)$ C) $[-3; 0]$ D) $(-\infty; -3] \cup [0; \infty)$

10. (Q 4 ball) Funksiyaning o'sish oralig'ini toping:

$$y = -x^2 - 10x + 12$$

- A) $[5; \infty)$ B) $[-5; \infty)$ C) $(-\infty; 5]$ D) $(-\infty; -5]$

11. (Q 4 ball) Tenglamani yeching:

$$\sqrt{x^2 - 10x + 13} = \sqrt{5 - 4x}$$

- A) 2 B) 2 va 4 C) \emptyset D) 4

12. (M 5 ball) a ning qanday qiymatlarida $ax^2 - 6x + 9a > 0$ tengsizlik x ning barcha qiymatlarida o'rinli bo'ladi?

- A) $a > 1$ B) $a < -1$ C) $a > -1$ D) $a < 1$

13. (B 4 ball) Katetlari 12 cm va 16 cm bo'lgan to'g'ri burchakli uchburchakning gipotenuzasi uzunligini toping.

- A) 28 cm B) 25 cm C) 18 cm D) 20 cm

14. (B 4 ball) O'xshash uchburchaklar uchun quyidagi tasdiqlarning to'g'ri yoki noto'g'ri ekanligini aniqlang.

No	Tasdiqlar	to'g'ri	noto'g'ri
1	O'xshash uchburchaklarning mos burchaklari o'zaro teng bo'ladi		
2	O'xshash uchburchaklarning mos tomonlari proporsional bo'ladi		
3	O'xshash uchburchaklarning tomonlari nisbati k ga teng bo'lsa, yuzlari nisbati k^2 ga teng bo'ladi		

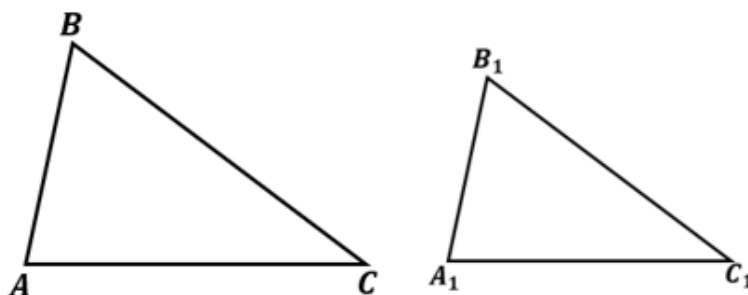
A) to'g'ri, to'g'ri, to'g'ri; B) noto'g'ri, to'g'ri, noto'g'ri;

C) to'g'ri, noto'g'ri, noto'g'ri; D) noto'g'ri, to'g'ri, to'g'ri;

15. (Q 5,2 ball) Ikkita o'xshash uchburchak yuzlari 42 m^2 va 378 m^2 . Kichik uchburchakning bir tomoni 6 m bo'lsa, katta uchburchakning unga mos tomoni uzunligini toping.

- A) 18 m B) 54 m C) 24 m D) 12 m

16. (Q 5,2 ball) Rasmda ABC va $A_1B_1C_1$ uchburchaklar tasvirlangan. Uchburchaklar o'xshashlik alomatlaridan foydalanib, quyidagi tasdiqlarning to'g'ri yoki noto'g'ri ekanligini aniqlang.



No	Tasdiqlar	to'g'ri	noto'g'ri
1	$\frac{BC}{B_1C_1} = \frac{AC}{A_1C_1}$ va $\angle A = \angle A_1$ bo'lsa, $\Delta ABC \sim \Delta A_1B_1C_1$ bo'ladi		
2	$\angle C = \angle C_1$ va $\angle B = \angle B_1$ bo'lsa, $\Delta ABC \sim \Delta A_1B_1C_1$ bo'ladi		

3	$\frac{AB}{A_1B_1} \neq \frac{AC}{A_1C_1} \neq \frac{BC}{B_1C_1}$ bo'lsa, $\Delta ABC \sim \Delta A_1B_1C_1$ bo'ladi		
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- A) noto'g'ri, to'g'ri, noto'g'ri; B) noto'g'ri, noto'g'ri, to'g'ri;
 C) to'g'ri, noto'g'ri, noto'g'ri; D) to'g'ri, to'g'ri, noto'g'ri;

17. (Q 5,2 ball) $ABCD$ parallelogramning CD tomonida E nuqta olingan. AE va BC nurlar F nuqtada kesishadi. Agar $DE = 8$ cm, $EC = 2$ cm, $BC = 12$ cm, $AE = 6$ cm bo'lsa, ABF uchburchak perimetrini toping.

- A) 38,5 cm B) 36 cm C) 32,5 cm D) 42 cm

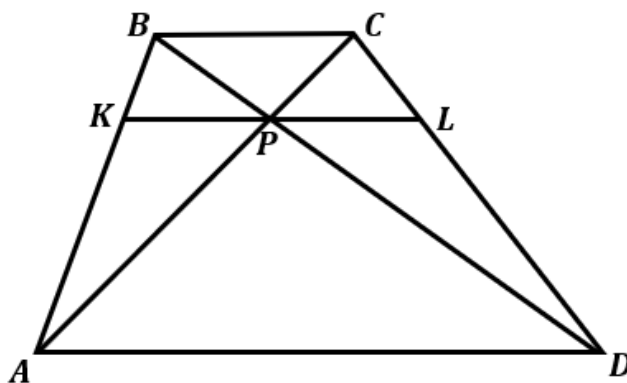
18. (Q 5,2 ball) $O(3; 6)$ nuqtaga nisbatan simmetriyada $A(2; 4)$ nuqta qaysi nuqtaga o'tadi?

- A) (3; 2) B) (4; 8) C) (1; 2) D) (-1; -2)

19. (Q 5,2 ball) Perimetri 54 cm bo'lgan uchburchakning bir tomoniga parallel qilib o'tkazilgan to'g'ri chiziq undan perimetri 18 cm va yuzi 24 cm^2 ga teng uchburchak ajratadi. Berilgan uchburchak yuzini toping.

- A) 72 cm^2 B) 216 cm^2 C) 144 cm^2 D) 196 cm^2

20. (M 6 ball) Rasmda tasvirlangan trapetsiyada $AD \parallel BC \parallel KL$. Agar $BC = 6$ cm, $AD = 9$ cm bo'lsa, KL kesma uzunligini toping.



- A) 8,1 cm B) 7,5 cm C) 7,2 cm D) 6,4 cm

21. (B. 2 ball) Complete the definition with personality adjective.

Someone who is useful and helps others is ...

- A) helpful
 B) polite
 C) popular
 D) active

22. (B. 2 ball) Choose the correct answer.

Ben wants to climb to the top of the

- A) valley
 B) mountain
 C) river
 D) sea

23. (B. 2 ball) Choose the correct answer.

We're travelling to Italy from Uzbekistan and then renting a car to drive around.

- A) by plane
 B) by underground
 C) by scooter
 D) by boat

24. (B. 2 ball) Choose the correct answer.

I like doing exercise, so I enjoy

- A) PE
- B) Drama
- C) Design and technology
- D) ICT

25. **(Q. 2.8 ball)** Choose the correct form of the verb:

I _____ this book now, but I usually _____ novels.

- A) am reading, read
- B) reading, read
- C) reads, read
- D) read, is reading

26. **(Q. 2.8 ball)** Choose the correct form of the verb:

We _____ dinner at a nice restaurant every Saturday, but tonight we _____ at home.

- A) are eating, eat
- B) eat, are eating
- C) eats, eating
- D) eat, eating

27. **(Q. 2.8 ball)** Choose the correct form of the verb:

I _____ my homework before dinner last night.

- A) do
- B) did
- C) done
- D) doing

28. **(Q. 2.8 ball)** Choose the correct form of the verb:

We _____ a great time at the party last weekend.

- A) have
- B) having
- C) has
- D) had

29. **(Q. 2.8 ball)** Choose the correct preposition to complete the sentence:

We will start the meeting _____ 10 o'clock.

- A) on
- B) in
- C) by
- D) at

30. **(Q. 2.8 ball)** Choose the correct preposition to complete the sentence:

I prefer to travel _____ train.

- A) on
- B) at
- C) by
- D) in

31. **(Q. 2.8 ball)** Choose the correct answer.

I don't watch TV as much _____ Tom does.

- A) as

- B) than
- C) that
- D) more

32. (Q. 2.8 ball) Choose the correct answer

Stephen speaks English the _____ fluently in our class.

- A) most
- B) much
- C) more
- D) less

33. (Q. 2.8 ball) Choose the correct form of the verb:

While she _____ in the park, it _____ to rain.

- A) walked, started
- B) walked, was starting
- C) was walking, started
- D) was walking, was starting

34. (Q. 2.8 ball) Choose the correct form of the verb:

They _____ dinner when we _____ at their house.

- A) had, arrived
- B) were having, arrived
- C) were having, were arriving
- D) had, were arriving

35. (M. 4 ball) Read the text and choose the CORRECT statement.

DAILY STORIES

by Margarita Marcos

Today I'm writing this blog about my oldest sister, Sofia. She's six years older than me. It's her birthday today and she's 21. She doesn't live in the same house as my parents and me, but her flat is in the same street. We live at number 22 Spring Street, and she lives in one of six flats at number 28.

Sofia is the first person I go to when I have a problem, and she always tries to help. She also helps me with my English homework. We all speak Spanish at home, but Sofia speaks English really well too as a second language. She knows some English from school, but she also listens to English music and watches English films. Another thing she is great at is dancing. She's teaching me the tango this week. Tango is really difficult, but I love the music and the dance.

My sister's interested in everything. She loves learning about science on the internet, and she often reads books about history in her free time. She also does three sports: football, swimming and running. She enjoys them all and is good at swimming. She likes camping, and she's learning to play the piano at the moment, too. She can't play very well yet, but she practises every day. She's also planning to learn the violin. She's a very active person! I really don't know how she has time to do so many things!

- A) Sofia is Margarita's younger sister.
- B) Sofia lives in the same house as Margarita and their parents.
- C) Sofia is learning to play the violin at the moment.
- D) Sofia is a very active person and manages to do many things.

36. (Bilish – 2 ball) Quyidagi javoblardan to‘g‘rilarini toping: a) Broun harakati faqat gaz zarralarida kuzatiladi; b) Broun harakatida zarrachalar mustaqil harakat qiladi; c) Broun harakati haroratga bog‘liq.

- A) faqat a va b
 B) faqat a va c
 C) barchasi to‘g‘ri
 D) faqat b va c

37. (Qo‘llash – 2,8 ball) Massasi 5 kg bo‘lgan grafitda qancha uglerod atomi bor? Uglerod atomining massasini $2 \cdot 10^{-26}$ kg deb oling.

- A) $2,5 \cdot 10^{26}$ B) $25 \cdot 10^{24}$ C) $1,5 \cdot 10^{26}$ D) $3,0 \cdot 10^{26}$

38. (Qo‘llash – 2,8 ball) 140 mol misning massasi (kg) qancha? Misning molyar massasi 64 g/mol.

- A) 9,52 B) 9,28 C) 8,75 D) 8,96

39. (Bilish – 2 ball) Ideal gaz bosimini hisoblash uchun quyida berilgan formulalardan to‘g‘rilarini aniqlang.

- a) $p = \frac{1}{3} nm_0 \overline{v^2}$ b) $p = \frac{1}{3} nE_k$ c) $p = \frac{2}{3} \rho \overline{v^2}$

- A) barchasi to‘g‘ri
 B) faqat b
 C) faqat b va c
 D) faqat a

40. (Bilish – 2 ball) Quyida **M** ustunda berilgan haroratlarga **N** ustundan mos keluvchi haroratlarni to‘g‘ri moslab chiqing.

M (kelvin)	N (selsiy)
1) 293 K	a) 20°C
2) 263 K	b) -10°C
3) 310 K	c) 37°C
	d) 0°C

- A) 1-a; 2-b; 3-c
 B) 1-d; 2-c; 3-a
 C) 1-c; 2-b; 3-a
 D) 1-d; 2-a; 3-b

41. (Qo‘llash – 2,8 ball) Massasi $3 \cdot 10^{-26}$ kg bo‘lgan vodorod atomining kinetik energiyasi $60 \cdot 10^{-21}$ J bo‘lsa, uning harakat tezligi qanday (m/s) bo‘ladi?

- A) 2000 B) 3000 C) 7000 D) 4500

42. (Qo‘llash – 2,8 ball) Mendeleyev-Klapeyron tenglamasidan ideal gazning massasi qanday hisoblanadi?

- A) $m = \frac{pV}{RT}$ C) $m = \frac{pVM}{RT}$
 B) $m = \frac{RT}{pV}$ D) $m = \frac{pV}{RTM}$

43. (Qo‘llash – 2,8 ball) Hajmi 25 l bo‘lgan idishga azot (molyar massasi 28 g/mol) solingan. Idishdagi gazning harorati 127°C va bosimi 150 kPa ga teng bo‘lsa, idishdagi gaz massasini (g) aniqlang.

- A) 27,3 B) 31,6 C) 30,5 D) 35

44. (Qo‘llash – 2,8 ball) Normal atmosfera bosimi sharoitida ideal gaz 8 l hajmni egallaydi. Agar gaz bosimi 25 kPa ga ortsa gaz qanday hajmni (l) egallaydi? Harorat o‘zgarmas deb oling.

- A) 5,5 B) 6,4 C) 1,2 D) 7,2

45. (Qo'llash – 2,8 ball) Ideal gazning harorati 87°C va hajmi 30 l . Bosim o'zgarmaganda gazning hajmi 12 l ga teng bo'lishi uchun uni qanchagacha (K) sovutish kerak?

- A) 230 B) 210 C) 144 D) 200

46. (Qo'llash – 2,8 ball) Ideal gazning harorati 87°C va bosimi 300 kPa . Hajm o'zgarmaganda gazning bosimi 250 kPa ga teng bo'lishi uchun uni qanchaga ($^{\circ}\text{C}$) sovutish kerak?

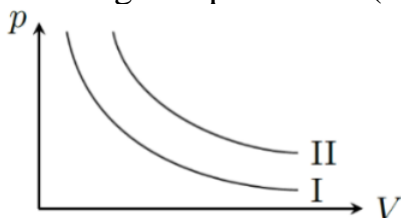
- A) 60 B) 50 C) 80 D) 65

47. (Bilish – 2 ball) Ideal gazning ichki energiyasini hisoblash uchun quyida berilgan formulalardan to'g'ri-rilarini aniqlang.

- a) $U = pV$ b) $U = \frac{m}{M}RT$ c) $U = \frac{3}{2}vRT$

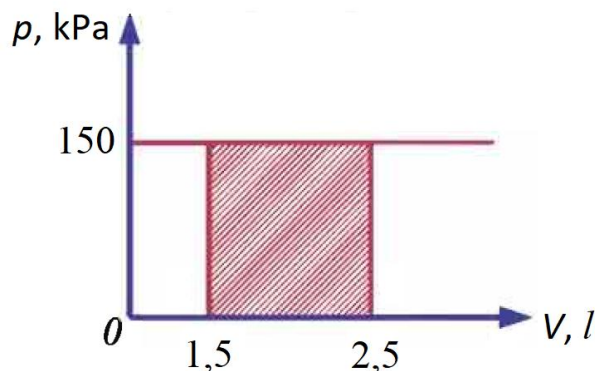
- A) barchasi to'g'ri C) faqat b
B) faqat c D) faqat a va b

48. (Mulohaza – 4 ball) Ideal gaz ustida ikki xil izotermik jarayon bajarildi. Birinchi holda gazning ichki energiyasi 200 kJ ga teng bo'lib, ikkinchi holda esa birinчисidan 50 kJ ga farq qilgan. Agar ikkala jarayondagi temperaturalar 100 K ga farq qilgan bo'lsa, ikkinchi holatdagi temperaturani (K) aniqlang.



- A) 350 B) 400 C) 500 D) 300

49. (Qo'llash – 2,8 ball) Rasmda o'zgarmas bosimli gazning kengayish grafigi keltirilgan. Kengayish jarayonida gaz qanday ish (kJ) bajargan?



- A) 0,15 B) 0,25 C) 0,10 D) 0,30

50. (Qo'llash – 2,8 ball) Porshen ostidagi azot gazi 50 K ga izobarik qizdirilganda gaz tashqi kuchlarga qarshi 200 kJ ish bajargan. Azotning (molyar massasi 28 g/mol) massasi qanday (kg) bo'lgan? Universal gaz doimiysi $R = 8,3\text{ J/(mol}\cdot\text{K)}$.

- A) 12,3 C) 20,1
B) 15,5 D) 13,5

