**Matematika.10-sinf. Test savollari.**

1. Quyidagi toplamlar qaysi elementlardan tuzilgan.

 a) 1va 3 bilangina yoziladigan barcha uch xonali sonlar

 toplami.

 b) 1;3;5 raqamlaridan faqat bir marta foydalanib

 yoziladigan barcha uch xonali sonlar toplami.

 v) raqamlarining yig’indisi 5 ga teng bo’lgan uch xonali son

 lar toplami.

 g) 100 dan kichik va oxirgi raqami 1 bo’lgan barcha natural

 sonlar toplami.

1. k ning qanday qiymatida y = kx 2 – 2 funksiyaning grafigi A(-1;1) nuqtadan o`tadi ?

A) 4 B) -3 C) 3 D) 2 E) -1

3. Ifodaning qiymatini toping: 

 A.  B.  C. 2 D . \*- 

?

4. y = 2x 2 + bx +c parabolaning uchi (-3;-5) nuqtada joylashgan. Bu funksiya nollarining o`rta arifmetigini toping.

A) -1 B) -2 C) -3 D) 1 E) 5

5.  tenglamani yeching.

A. \* B.  

C. D.  

6. Quyidagi parabolalardan qaysi biri OX o`qi bilan kesishadi ?

1) y = 2x 2 – 5x + 8 2) y = -2x 2 – 8x -8 3) y = x 2 – 3x – 8 4) y = -3x 2 + 6x -12

A) 1 B) 2 C) 3 D) 4 E) hech qaysi

7. Agar  bo’lsa,  quyidagilardan qaysi biriga teng?

A. 5 – a B. 3 – a C. \*4 – a D. 3 - 

8. Agar a > 0 va b 2 - 4ac < 0 bo`lsa, y = ax 2 + bx +c funksiyaning grafigi koordinatalar tekisligining qaysi choraklarida joylashadi ?

A) I, IV B) I, II, IV C) IV D) III, IV E) I,II

9. Tengsizlikni yeching: (x – 2) (x+3) > 0.

A) (-∞;2) U (3;∞) B) (-∞;-3) U (2;∞) C) (-∞;-2) U (3;∞) D) (-∞; ∞)

10. Ushbu (y +6) (y +2) < 0 tengsizlikning barcha butun yechimlari yig`indisini toping.

A) 12 B) 20 C) -12 D) -20 E) -9

11. Tengsizlikning butun yechimlari ko`paytmasini toping: 2x 2 – 9x + 4 <0

A) 0 B) 4 C) 24 D) 8 E) 6

12. Tengsizlikni yeching: (x – 2) 2 + 3 (x – 2) ≥ 7 – x

A) [0;1] U [3;∞) B) [-2;1] C) [-3;3] D) [3;∞ ) E) (-∞;-3] U [3; ∞)

13. Tengsizlikning butun yechimlari yig`indisini toping: 2x 2 ≤ 5x + 12.

A) 4 B) 9 C) 7 D) 5 E) 6

14. (x + 2) (x – 2) – 2(x – 1) ≤ 23 – 2x

A) (-∞;5] B) (0;25] C) [-5;5] D) [-;] E) Ø

15. x 2 + 2x -15 < 0 tengsizlikning natural sonlardagi yechimlari ko`paytmasini toping.

A) 0 B) 2 C) 4 D) 6 E) 24

16. Tengsizlikni yeching: x 2 – x + 1 > 0.

A) Ø B) [0;∞) C) (-∞ ; ∞) D) (-∞;0) E) (0;∞)

17. 2 – x – x 2 ≥ 0 tengsizlikning eng katta butun yechimini toping.

A) 1 B) 2 C) -1 D) -2 E) 0

18. 9x 2 – 6x + 1 > 0 tengsizlikni yeching.

A) (-∞; - )(- ; ∞) B) (- ; ∞) C) (-; ∞) D) (-∞; ) E) (-∞; )  ( ; ∞)

19. Yig’indi qanday raqam bilan tugaydi**:**  

20. Ikkita o`xshash uchburchakning yuzlari 6 va 24, ulardan birining perimetri ikkinсhisinikidan 6 ga ortiq. Katta uchburchakning perimetrini toping.

21. AB׀׀ CD, CA va DB to`g`ri chiziqlar O nuqtada kesishadi. OA = 5 sm, OB = 4 sm. OD = 9 sm bo`lsa, OC ni toping.

22. . AB׀׀ CD, CA va DB to`g`ri chiziqlar O nuqtada kesishadi. OA = 5sm, OB = 6 sm, AC = 2 sm bo`lsa, BD ni toping.

23. Uchburchak ABC ning tomonlari . MN׀׀ AC to`g`ri chiziq bilan kesildi. ABC va MBN uchburchaklarning perimetrlari 3:1 kabi nisbatda. ABC uchburchakning yuzi 144 ga teng. MBN uchburchakning yuzini toping.

 24. ABC uchburchakning tomonlari A1B1C1 uchburchakning mos tomonlaridan 2 marta katta. ABC uchburchakning yuzi A1B1C1  uchburchakning yuzidan necha marta katta ?

25. . B= toplam berilgan.Shu toplamga tegishli natural sonlarni ajrating.