9-Mavzu. Tenglamalar

1. $94 + 8y = 238$ tenglamani yeching.

A) 16 B) 12 C) 20 D) 18

2. Tenglamani yeching: $2(x + 3) - 3(x + 2) = 5 - 4(x + 1)$

A) 1 B) $\frac{1}{3}$ C) $\frac{2}{3}$ D) 2

3.Tenglamani yeching: $\frac{5x}{2} - \frac{x-3}{3} = 1 + \frac{x-5}{6}$

A) $-\frac{5}{12}$ B) $\frac{5}{12}$ C) $-\frac{1}{2}$ D) $\frac{1}{2}$

4. Tenglamani yeching. $2(x + 1) - 1 = 3 - (1 - 2x)$

A) $-\frac{1}{2}$ B) $\frac{1}{2}$ C) 0 D) $\emptyset$

5. Tenglamani yeching. $3(1 - x) + 2 = 5 - 3x$

A) 0 B) 1 C) ixtiyoriy haqiqiy son D) $\emptyset$

6. 3; *y*; 2,1 va 2,1 sonlarining o‘rta arifmetigi 2,55 ga teng. *y* ni toping.

A) 2,1 B) 2,6 C) 2 D) 3

7. $x: 5 = 21: 15$ proporsiyaning noma’lum hadini toping.

A) 3 B) 5 C) 7 D) 9

8. $7\frac{1}{2}: 4\frac{1}{2} = x: \frac{3}{25}$ tenglamani yeching.

A) $\frac{1}{5}$ B) $\frac{1}{3}$ C) $\frac{2}{5}$ D) $\frac{2}{3}$

9. $2{,}4: 6 = 3: x$ proporsiyaning noma’lum hadini toping.

A) 15 B) 7,5 C) 1,5 D) 0,75

10. Proporsiyaning noma’lum hadini toping: $5\frac{5}{8}: 7\frac{1}{2} = x: 6\frac{2}{5}$

A) $4\frac{4}{5}$ B) $3\frac{2}{5}$ C) $5\frac{1}{8}$ D) $4\frac{1}{5}$

11. Tenglamani yeching: $x: 2{,}0(6) = 0{,}(27): 0{,}4(09)$

A) 1,3 B) 1,3(7) C) 1,(37) D) 1,(32)

12. $\frac{15}{2+\frac{x+2015}{2015-\frac{x-3}{2}}} = 5$ tenglamaning ildizlari yig‘indisini toping.

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

13. Tenglamani yeching: $(x^2+5x)-x(x-5)=0$

A) 0 B) 1;5 C) 0;5 D) ildizi yo‘q

14. Tenglamani yeching: $(t^2+8t-9)-(t^2-11t+10)=18t-20$

A) $-0{,}5$ B) 2 C) -1 D) 1

15. Tenglamani yeching:

$$1{,}4\cdot(2+0{,}6)\cdot(4+0{,}6^2)\cdot(16+0{,}6^4)\cdot x=0{,}6^8-256$$

A) $0{,}6^4-16$ B) 1 C) -1 D) $16-0{,}6^4$

16. $2(a+1)(b+1)=(a+b)(a+b+2)$ bo‘lsa, a^2+b^2 ni toping.

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

17. $5x-y=10$ tenglamadan x ni y orqali ifodalang.

A) $x=\frac{-10+y}{5}$ B) $y=5x-10$ C) $x=2+\frac{1}{5}y$ D) $x=10+y$

18. Tenglamani yeching: $4x^2-25=0$

A) 2,5 B) $-2{,}5$ C) $-2{,}5;2{,}5$ D) $-10;10$

19. $5x^2-10=0$ tenglamaning ildizlari ko‘paytmasini toping.

A) –2 B) 2 C) ildizi yo‘q D) $\sqrt{2}$

20. Qaysi tenglama ildizga ega emas?

A) $2{,}7x^2-1{,}5x=0$ B) $2{,}7x^2+1{,}5x=0$ C) $2{,}7x^2-1{,}5=0$ D) $2{,}7x^2+1{,}5=0$

21. Tenglamaning ildizlari yig‘indisini toping: $(3x-5)(x+2)=(x+4)^2-29$

A) –3,5 B) 1,75 C) 3,5 D) –1,75

22. Ushbu $x-3=\frac{11}{x}$ tenglamaning nechta haqiqiy ildizi bor?

A) 1 B) 2 C) 3 D) ildizi yo’q

23. Tenglamani yeching: $(2x-3)(x+1)=-16x-(x-3)^2$

A) $x_1=2,x_2=-1$ B) $x_1=-2,x_2=1$ C) $x_1=-2,x_2=-1$ D) $x_1=-1,x_2=2$

24. $-\frac{1}{3}x^2+x-\frac{3}{4}=0$ kvadrat tenglama nechta haqiqiy yechimga ega?

A) 0 B) 1 C) 2 D) 3

25. $3x^2-5x-6=0$ tenglamaning ikkala ildizlari ko‘paytmasini toping.

A) $-\frac{5}{3}$ B) $\frac{5}{3}$ C) -2 D) -6

26. Kasrni qisqartiring: $\frac{x^2+5x-36}{81-x^2}$

A) $\frac{x-4}{x-9}$ B) $\frac{x+4}{9-x}$ C) $\frac{x-4}{9-x}$ D) $\frac{x-4}{9+x}$

27. $x^2+5x-6=0$ kvadrat tenglamaning kichik ildizini katta ildiziga nisbatini toping.

A) $-\frac{1}{6}$ B) $\frac{1}{6}$ C) –6 D) 6

28. $(x-1)(x-2)+(x-2)(x-3)-2(x-3)(x-1)=2$ tenglama nechta ildizga ega?

A) 1 B) 2 C) 0 D) cheksiz ko‘p

29. Ildizlari $4+\sqrt{5}$ va $4-\sqrt{5}$ bo‘lgan kvadrat tenglama tuzing.

A)$x^2+5x+4=0$ B)$x^2-11x+8=0$ C)$x^2+8x+11=0$ D)$x^2-8x+11=0$

30. Ifodalardan qaysi biri $x=2$ va $x=3$ da ma’noga ega emas?

A) $\frac{x-2}{x-3}$ B) $\frac{x-3}{x-2}$ C) $\frac{3}{(x-2)(x-3)}$ D) $\frac{(x-2)(x-3)}{3}$

Kalitlar

1.	D	16.	B
2.	B	17.	C
3.	A	18.	C
4.	D	19.	A
5.	C	20.	D
6.	D	21.	C
7.	C	22.	B
8.	A	23.	C
9.	B	24.	B
10.	A	25.	C
11.	B	26.	C
12.	A	27.	C
13.	A	28.	D
14.	C	29.	D
15.	C	30.	C