

4-6 Practice

The Quadratic Formula and the Discriminant

Solve each equation by using the Quadratic Formula.

1. $7x^2 - 5x = 0$ $0, \frac{5}{7}$

3. $3x^2 + 8x = 3$ $-\frac{4}{3}, -3$

5. $3x^2 - 13x + 4 = 0$ $\frac{1}{3}, 4$

7. $x^2 - 6x + 3 = 0$ $3 \pm \sqrt{6}$

9. $3x^2 = -54$ $\pm 3i\sqrt{2}$

11. $4x^2 - 4x + 17 = 0$ $\frac{1 \pm 4i}{2}$

13. $x^2 = 4x - 15$ $2 \pm i\sqrt{11}$

2. $4x^2 - 9 = 0$ $\pm \frac{3}{2}$

4. $x^2 - 21 = 4x$ $-3, 7$

6. $15x^2 + 22x = -8$ $-\frac{2}{3}, -\frac{4}{5}$

8. $x^2 - 14x + 53 = 0$ $7 \pm 2i$

10. $25x^2 - 20x - 6 = 0$ $\frac{2 \pm \sqrt{10}}{5}$

12. $8x - 1 = 4x^2$ $\frac{2 \pm \sqrt{3}}{2}$

14. $4x^2 - 12x + 7 = 0$ $\frac{3 \pm \sqrt{2}}{2}$

Complete parts a-c for each quadratic equation.

a. Find the value of the discriminant.

b. Describe the number and type of roots.

c. Find the exact solutions by using the Quadratic Formula.

15. $x^2 - 16x + 64 = 0$
0; 1 rational; 8

18. $x^2 - 3x = 40$
169; 2 rational; -5, 8

21. $5x^2 - 2x + 4 = 0$
-76; 2 complex; $\frac{1 \pm i\sqrt{19}}{5}$

24. $12x^2 + 2x - 4 = 0$
196; 2 rational; $\frac{1}{2}, -\frac{2}{3}$

27. $4x^2 - 3x - 6 = 0$
105; 2 irrational; $\frac{3 \pm \sqrt{105}}{8}$

30. **GRAVITATION** The height $h(t)$ in feet of an object t seconds after it is propelled straight up from the ground with an initial velocity of 60 feet per second is modeled by the equation $h(t) = -16t^2 + 60t$. At what times will the object be at a height of 56 feet? 1.75 s, 2 s

31. **STOPPING DISTANCE** The formula $d = 0.05s^2 + 1.1s$ estimates the minimum stopping distance d in feet for a car traveling s miles per hour. If a car stops in 200 feet, what is the fastest it could have been traveling when the driver applied the brakes? about 53.2 mi/h

16. $x^2 = 3x$
9; 2 rational; 0, 3

19. $3x^2 + 9x - 2 = 0$
105; 2 irrational; $\frac{-9 \pm \sqrt{105}}{6}$

22. $12x^2 - x - 6 = 0$
289; 2 rational; $\frac{3}{4}, -\frac{2}{3}$

25. $6x^2 - 2x - 1 = 0$
28; 2 irrational; $\frac{1 \pm \sqrt{7}}{6}$

28. $16x^2 - 8x + 1 = 0$
0; 1 rational; $\frac{1}{4}$

17. $9x^2 - 24x + 16 = 0$
0; 1 rational; $\frac{4}{3}$

20. $2x^2 + 7x = 0$
49; 2 rational; 0, $-\frac{7}{2}$

23. $7x^2 + 6x + 2 = 0$
-20; 2 complex; $\frac{-3 \pm i\sqrt{5}}{7}$

26. $x^2 + 3x + 6 = 0$
-15; 2 complex; $\frac{-3 \pm i\sqrt{33}}{2}$

29. $2x^2 - 5x - 6 = 0$
73; 2 irrational; $\frac{5 \pm \sqrt{73}}{4}$

Practice B The Quadratic Formula And The Discriminant

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