

3.1- Corrective Assignment

Solve each of the following quadratic equations.

1. $(x + 7)(x + 1) = 0$

2. $(x + 2)(x + 3) = 0$

3. $x(x - 2) = 0$

4. $x(x - 7) = 0$

5. $(3x - 3)(4x + 2) = 0$

6. $(2x + 5)(4x - 3) = 0$

7. $x^2 + 4x + 3 = 0$

8. $x^2 + 6x + 5 = 0$

9. $x^2 - 6x + 8 = 0$

10. $x^2 - 8x + 15 = 0$

11. $x^2 + x = 6$

12. $x^2 - x = 6$

13. $x^2 - 10x = -16$

14. $x^2 - 11x = -28$

Without graphing, find where each parabola crosses the x-axis.

15. $y = x^2 - 2x - 3$

16. $y = x^2 + 2x - 8$

17. $y = x^2 - x - 30$

18. $y = x^2 + 4x - 5$

19. $x^2 + 4x = 5 + y$

20. $x^2 - 3x = 10 + y$

Answers

1. $x = -7$ and $x = -1$
2. $x = -2$ and $x = -3$
3. $x = 0$ and $x = 2$
4. $x = 0$ and $x = 7$
5. $x = 1$ and $x = -\frac{1}{2}$
6. $x = \frac{-5}{2}$ and $x = \frac{3}{4}$
7. $x = -1$ and $x = -3$
8. $x = -1$ and $x = -5$
9. $x = 4$ and $x = 2$
10. $x = 5$ and $x = 3$
11. $x = -3$ and $x = 2$
12. $x = 3$ and $x = -2$
13. $x = 2$ and $x = 8$
14. $x = 4$ and $x = 7$
15. $(-1, 0)$ and $(3, 0)$
16. $(-4, 0)$ and $(2, 0)$
17. $(6, 0)$ and $(-5, 0)$
18. $(-5, 0)$ and $(1, 0)$
19. $(1, 0)$ and $(-5, 0)$
20. $(5, 0)$ and $(-2, 0)$