

9E Worksheet (Solving Quadratic Equations by Factoring)**Solve by Factoring.**

1) $2x^2 - 7x - 4 = 0$

2) $x^2 - 9x + 20 = 0$

3) $4x^2 - 49 = 0$

4) $16x^2 - 8x + 1 = 0$

5) $7x^2 + 15x + 2 = 0$

6) $6x^2 + 12x = 0$

7) $x^2 - 6x - 3 = 13$

8) $x^2 = 144$

9) $3x^2 + 24x - 5 = 2x - 12$

10) $4x^2 + 5x = -13x$

Simplify the radical. (11.1)

11) $\sqrt{40}$

12) $\sqrt{28}$

13) $\sqrt{98}$

14) $\sqrt{120}$

9E Worksheet Answers

1. $x = -\frac{1}{2}, 4$

2. $x = 4, 5$

3. $x = \pm \frac{7}{2}$

4. $x = \frac{1}{4}, \frac{1}{4}$

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

6. $x = -2, 0$

7. $x = -2, 8$

8. $x = \pm 12$

9. $x = -7, -\frac{1}{3}$

10. $x = -\frac{9}{2}, 0$

11. $2\sqrt{10}$

12. $2\sqrt{7}$

13. $7\sqrt{2}$

14. $2\sqrt{30}$