

Solving Review WS2

Solve each equation by taking square roots. Show all required work.

1) $x^2 = 100$

2) $x^2 = 169$

3) $x^2 = 49$

4) $x^2 = 225$

5) $(x - 10)^2 = 400$

6) $(x + 7)^2 = 64$

7) $(x + 9)^2 = 9$

8) $(x - 14)^2 = 324$

Solve each equation by factoring. Show all required work.

9) $x^2 + 2x - 99 = 0$

10) $x^2 - 14x + 48 = 0$

11) $x^2 + 18x + 56 = 0$

12) $x^2 - 21x - 72 = 0$

Solve each equation with the quadratic formula. Show all required work. Round answers to two decimal places, where necessary.

13) $4x^2 + 9x = 9$

14) $7x^2 - 9x = 21$

Answers to Solving Review WS2

1) $x = -10, x = 10$

5) $x = -10, x = 30$

9) $x = 9, x = -11$

13) $x = 0.75, x = -3$

2) $x = -13, x = 13$

6) $x = -15, x = 1$

10) $x = 6, x = 8$

14) $x \approx -1.21, x \approx 2.49$

3) $x = -7, x = 7$

7) $x = -12, x = -6$

11) $x = -4, x = -14$

4) $x = -15, x = 15$

8) $x = -4, x = 32$

12) $x = -3, x = 24$