

Name : _____

Solving Quadratic Equations

MS1

Solve each quadratic equation using quadratic formula.

1) $0.5q^2 - 6q + 4 = 0$

2) $n^2 + 18 = 11n$

3) $w^2 - 2\sqrt{2}w + 2 = 0$

4) $t^2 - 2t - 2 = 0$

5) $16k^2 - 40k + 25 = 0$

6) $42u - 50 = 0$

7) $3p^2 + 7 = 0$

8) $s + 10 = 4s$

9) $\frac{2}{3}d^2 - \frac{4}{6}d + \frac{1}{9} = 0$

10) $-7 = 2x^2 - 8x$

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Answer key

Solving Quadratic Equations

MS1

Solve each quadratic equation using quadratic formula.

1) $0.5q^2 - 6q + 4 = 0$

$$q = 6 \pm 2\sqrt{7}$$

2) $n^2 + 18 = 11n$

$$n = 2; n = 9$$

3) $w^2 - 2\sqrt{2}w - 2 = 0$

$$w = \sqrt{2} \pm \sqrt{15i}$$

5) $16k^2 - 40k + 25 = 0$

$$k = \frac{5 \pm \sqrt{3}}{4}$$

7) $3p^2 + 7p - 2 = 0$

$$p = \frac{-2 \pm \sqrt{14}}{3}$$

9) $\frac{2}{3}d^2 - \frac{4}{6}d + \frac{1}{9} = 0$

$$d = \frac{3 \pm \sqrt{3}}{6}$$

10) $-7 = 2x^2 - 8x$

$$x = \frac{4 \pm \sqrt{2}}{2}$$

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