

Name _____ Date _____ Period _____

20: Solve with Quadratic Formula**Solve each equation with the quadratic formula. Leave irrational answers as exact values.**

1) $n^2 + 4n - 7 = 0$

2) $3b^2 + b - 6 = 0$

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

4) $3v^2 - 3v - 3 = 0$

5) $a^2 - 12 = -4a$

6) $2k^2 = -3k + 14$

7) $n^2 + 5n = 24$

8) $0 = -2x^2 - 3x + 9$

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20: Solve with Quadratic Formula**Solve each equation with the quadratic formula. Leave irrational answers as exact values.**

1) $n^2 + 4n - 7 = 0$

$$\{-2 + \sqrt{11}, -2 - \sqrt{11}\}$$

2) $3b^2 + b - 6 = 0$

$$\left\{ \frac{-1 + \sqrt{73}}{6}, \frac{-1 - \sqrt{73}}{6} \right\}$$

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

$$\left\{ \frac{-1 + \sqrt{33}}{8}, \frac{-1 - \sqrt{33}}{8} \right\}$$

4) $3v^2 - 3v - 3 = 0$

$$\left\{ \frac{1 + \sqrt{5}}{2}, \frac{1 - \sqrt{5}}{2} \right\}$$

5) $a^2 - 12 = -4a$

$$\{2, -6\}$$

6) $2k^2 = -3k + 14$

$$\left\{ 2, -3\frac{1}{2} \right\}$$

7) $n^2 + 5n = 24$

$$\{3, -8\}$$

8) $0 = -2x^2 - 3x + 9$

$$\left\{ 1\frac{1}{2}, -3 \right\}$$