

## 4.7 - Quadratic Formula Practice

Date \_\_\_\_\_

**Solve each equation with the quadratic formula.**

1)  $7n^2 + 6n - 5 = 0$

2)  $9v^2 + 8v + 1 = 0$

3)  $4r^2 + 12r - 4 = 6$

4)  $5r^2 - 12 = -11r$

5)  $5b^2 - 7b - 138 = 0$

6)  $7r^2 - 13 = 0$

7)  $8n^2 - 10n = -9$

8)  $6v^2 - 7 = -6v$

9)  $r^2 + 9r = -8$

10)  $4x^2 + 6x = 10$

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**Solve each equation with the quadratic formula.**

1)  $7n^2 + 6n - 5 = 0$

$$\left\{ \frac{-3 + 2\sqrt{11}}{7}, \frac{-3 - 2\sqrt{11}}{7} \right\}$$

2)  $9v^2 + 8v + 1 = 0$

$$\left\{ \frac{-4 + \sqrt{7}}{9}, \frac{-4 - \sqrt{7}}{9} \right\}$$

3)  $4r^2 + 12r - 4 = 6$

$$\left\{ \frac{-3 + \sqrt{19}}{2}, \frac{-3 - \sqrt{19}}{2} \right\}$$

4)  $5r^2 - 12 = -11r$

$$\left\{ \frac{4}{5}, -3 \right\}$$

5)  $5b^2 - 7b - 138 = 0$

$$\left\{ 6, -\frac{23}{5} \right\}$$

6)  $7r^2 - 13 = 0$

$$\left\{ \frac{\sqrt{91}}{7}, -\frac{\sqrt{91}}{7} \right\}$$

7)  $8n^2 - 10n = -9$

$$\left\{ \frac{5 + i\sqrt{47}}{8}, \frac{5 - i\sqrt{47}}{8} \right\}$$

8)  $6v^2 - 7 = -6v$

$$\left\{ \frac{-3 + \sqrt{51}}{6}, \frac{-3 - \sqrt{51}}{6} \right\}$$

9)  $r^2 + 9r = -8$

$$\{-1, -8\}$$

10)  $4x^2 + 6x = 10$

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