

Name: _____ Score: _____

Easy Quadratic Equations

Solve the given quadratic equations by factoring.

① $g^2 + 3g + 2 = 0$

② $y^2 + 4y - 21 = 0$

③ $a^2 - 13a + 40 = 0$

④ $3f^2 + 5f + 4 = 2$

Solve each equation using the quadratic formula.

⑤ $b^2 - 3b - 3 = 0$

⑥ $9q^2 - 9q - 7 = 0$

⑦ $3d^2 + 7d - 136 = 0$

⑧ $k^2 + 8k + 2 = 0$

Easy Quadratic Equations

Answers

① $g^2 + 3g + 2 = 0$

 $\{-1, -2\}$

② $y^2 + 4y - 21 = 0$

 $\{-7, 3\}$

③ $a^2 - 13a + 40 = 0$

 $\{5, 8\}$

④ $3f^2 + 5f + 4 = 2$

 $\{-1 - \frac{2}{3}\}$

⑤ $b^2 - 3b - 3 = 0$

 $\left\{\frac{3 + \sqrt{21}}{2}, \frac{3 - \sqrt{21}}{2}\right\}$

⑥ $9q^2 - 9q - 7 = 0$

 $\left\{\frac{3 + \sqrt{37}}{6}, \frac{3 - \sqrt{37}}{6}\right\}$

⑦ $3d^2 + 7d - 136 = 0$

 $\left\{\frac{17}{3}, -8\right\}$

⑧ $k^2 + 8k + 2 = 0$

 $\{-2, -6\}$
