

Solving Quadratics by Factoring

Date _____ Period _____

Solve each equation by factoring.

1) $(8b - 1)(b - 4) = 0$

2) $(a - 2)^2 = 0$

3) $(3p - 5)(p - 5) = 0$

4) $(x + 4)(x - 4) = 0$

5) $a^2 + a - 12 = 0$

6) $b^2 - 7b - 8 = 0$

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

8) $a^2 + 2a = 0$

9) $3r^2 - 14r + 8 = 0$

10) $7k^2 + 5k = 0$

11) $2x^2 - x - 21 = 0$

12) $15v^2 - 13v - 6 = 0$

13) $v^2 + v - 2 = 4$

14) $v^2 - 12v + 31 = -4$

15) $v^2 - 2v - 5 = -6$

16) $x^2 + 7x + 7 = -3$

17) $15r^2 - 7r = 4$

18) $3n^2 = 6 + 17n$

19) $3p^2 - 7p = -2$

20) $3b^2 = -b + 14$

Answers to Solving Quadratics by Factoring (ID: 1)

1) $\left\{\frac{1}{8}, 4\right\}$

5) $\{-4, 3\}$

9) $\left\{\frac{2}{3}, 4\right\}$

13) $\{-3, 2\}$

17) $\left\{\frac{4}{5}, -\frac{1}{3}\right\}$

2) $\{2\}$

6) $\{8, -1\}$

10) $\left\{-\frac{5}{7}, 0\right\}$

14) $\{5, 7\}$

18) $\left\{-\frac{1}{3}, 6\right\}$

3) $\left\{\frac{5}{3}, 5\right\}$

7) $\{3, 0\}$

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

15) $\{1\}$

19) $\left\{\frac{1}{3}, 2\right\}$

4) $\{-4, 4\}$

8) $\{-2, 0\}$

12) $\left\{\frac{6}{5}, -\frac{1}{3}\right\}$

16) $\{-5, -2\}$

20) $\left\{-\frac{7}{3}, 2\right\}$