

Solving Quadratics using factoring & quadratic formula

This review is NOT MANDATORY and will not be collected. You should use it if you are struggling on the Bonus Assignment #2 (Questions: 8-17)

NON-CALCULATOR

Solve each equation by factoring.

1) $(v + 4)(v - 7) = 0$

2) $k^2 + 2k = 0$

3) $p^2 - 11p + 33 = 3$

4) $7v^2 - 56v + 78 = -6$

5) $p^2 - 7p = -10$

6) $n^2 - 3n = 40$

7) $14n^2 + 56 = 65n$

8) $6x^2 - 29x = 5$

Solve each equation with the quadratic formula.

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

10) $v^2 - 144 = 0$

11) $4r^2 - 12r - 13 = -6$

12) $4v^2 + 2v - 3 = 3$

13) $4m^2 - 15 = 7m$

14) $4r^2 = 36$

15) $9x^2 - 24 = -12x$

16) $n^2 = -3 - 12n$

Answers to Solving Quadratics using factoring & quadratic formula (ID: 1)

1) $\{-4, 7\}$

5) $\{2, 5\}$

9) $\{1, -1\}$

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

16) $\{-6 + \sqrt{33}, -6 - \sqrt{33}\}$

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

6) $\{-5, 8\}$

10) $\{12, -12\}$

14) $\{3, -3\}$

3) $\{6, 5\}$

7) $\left\{\frac{8}{7}, \frac{7}{2}\right\}$

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

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

4) $\{6, 2\}$

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

12) $\left\{1, -1\frac{1}{2}\right\}$