

Solving Quadratics by Using the Quadratic Formula - Practice

Simplify the following problems. Factor completely.

1.
$$6x^2 - 3x = 5$$

2.
$$x^2 - 2x - 4 = 0$$

- 3. $2x^2 12x + 15 = 0$
- 4. $6x^2 + 19x = 15$
- 5. $25x^2 3x + 49 = 0$
- 6. $x^2 6 = 7x$
- 7. $-3x 28 = x^2$
- 8. $-x^2 + 3x 28 = 0$
- 9. $5x^2 + 20x 20 = 0$

10.
$$-x^2 + 7x = -10$$

Solutions:

1.
$$x = \frac{3 \pm \sqrt{129}}{12}$$

2. $x = 1 \pm \sqrt{5}$
3. $x = \frac{3 \pm \sqrt{6}}{2}$
4. $x = \frac{-19 \pm \sqrt{701}}{12}$
5. $x = \frac{3 \pm i \sqrt{4891}}{50}$
6. $x = \frac{7 \pm \sqrt{73}}{2}$
7. $x = \frac{3 \pm i \sqrt{103}}{2}$
8. $x = -4, 7$
9. $x = -2$
10. $x = 2, 5$

This instructional aid was prepared by the Learning Commons at Tallahassee Community College



This instructional aid was prepared by the Learning Commons at Tallahassee Community College