Solving Quadratics by Factoring - Practice

Simplify the following problems. Factor completely.

1.
$$6x^2 - 3x = 0$$

2.
$$x^2 - 2x - 3 = 0$$

3.
$$2x^2 - 11x + 15 = 0$$

$$4. \quad 6x^2 + 19x = -15$$

5.
$$25x^2 - 49 = 0$$

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.
$$x = 0, \frac{1}{2}$$

$$2. x = -1, 3$$

3.
$$x = 3, \frac{5}{2}$$

1.
$$x = 0, \frac{1}{2}$$
 2. $x = -1, 3$ 3. $x = 3, \frac{5}{2}$ 4. $x = \frac{-5}{3}, \frac{-3}{2}$

5.
$$x = \frac{-7}{5}, \frac{7}{5}$$
 6. $x = 1,6$ 7. $x = -4,7$

6.
$$x = 1,6$$

$$7. x = -4, 7$$

8.
$$x = -4,7$$
 9. $x = -2$ 10. $x = 2,5$

$$9.x = -1$$

10.
$$x = 2,5$$

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