Quadratic Equations

1. Solve each equation by factoring:
(Similar to p.152 #2)

$$x^2 - 7x - 30 = 0$$

2. Solve each equation by factoring:
(Similar to p.152 #8)

$$9x^2 - 28x = -3$$

3. Solve each equation by factoring:
(Similar to p.152 #14)

$$27x - 5 = (3x + 1)^2$$

4. Solve each equation by the square root property:
(Similar to p.152 #18)

$$5x^2 - 1 = 44$$

5. Solve each equation by the square root property:
(Similar to p.152 #26)

$$(x - 5)^2 = -16$$

6. Solve each equation by the square root property:
(Similar to p.152 #30)

$$(9x-2)^2 = 25$$

7. Solve each equation by the square root property:
(Similar to p.152 #34)

$$(3x+5)^2 = 12$$

8. Solve each equation by completing the square:
(Similar to p.152 #52)

$$x^2 - 4x - 7 = 0$$

9. Solve each equation by completing the square:
(Similar to p.152 #56)

$$x^2 - 7x - 2 = 0$$

10. Solve each equation by completing the square:
(Similar to p.152 #64)

$$7x^2 - 3x - 2 = 0$$

11. Solve each equation using the quadratic formula:
(Similar to p.152 #66-74)

$$x^2 - 7x + 3 = 0$$

12. Compute the discriminant. Then determine the number and type of solutions for the given equation: (Similar to p.152 #76-82)

$$3x^2 + 5x - 8 = 0$$