0-4 Solving Quadratics

Name _____

We can solve **some** quadratic equations by factoring: Example: $3x^2 + 7x - 6 = 0$

> (3x - 2)(x + 3) = 0 3x - 2 = 0 or x + 3 = 0 $x = \frac{2}{3}$ or x = -3

Solve these quadratic equations by factoring.

1.
$$5x^2 + 13x + 6 = 0$$

2. $4x^2 + 16x + 15 = 0$
3. $30x^2 - x - 3 = 0$

4.
$$x^2 + 2x + 1 = 0$$
 5. $6x^2 + 23x + 20 = 0$ 6. $8x^2 + 17x + 2 = 0$

Solve these quadratic equations using the quadratic formula, which always works unlike factoring.

7.
$$2x^2 + 8x + 5 = 0$$

8. $5x^2 + 2x - 6 = 0$