Solve each by factoring.

$$2. \quad 8x^2 + 12x = 0$$

$$4x^{2} + 12x = 0$$

$$4x(2x + 3) = 0$$

$$x = -3/2$$

GCF

$$(6x^{2}-28-2x=0)$$

$$(6x^{2}-2x-28=0)$$

$$\frac{2(3x^{2}-1x-14)}{-7(2)} = 0$$

$$\frac{3(3x^{2}-1x-14)}{2(3x-7)} = 0$$

$$\frac{3(3x-7)(x+2)}{2(3x-7)} = 0$$

Solve each using square roots.

Leave non-integer answers in simpified radical form.

3.
$$7x^2 + 11 = 39$$

4.
$$2x^2 + 40 = 8$$

$$\frac{2x}{x^2 = -32}$$

$$5. \quad 3x^2 - 2 = 70$$