With Help...

Solve for x by factoring:

$4x^2 = 4 + 6x$

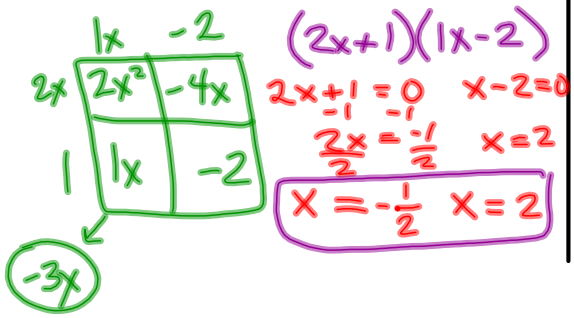
$-4x^2 \quad -4x^2$

$0 = -4x^2 + 6x + 4$

$\frac{}{-2} \quad \frac{}{-2} \quad \frac{}{-2}$

GCF = -2

$-2(2x^2 - 3x - 2)$



$(2x+1)(1x-2)$

$2x+1=0 \quad x-2=0$

$-1 \quad -1 \quad +2 \quad +2$

$\frac{2x}{2} = \frac{-1}{2} \quad x = 2$

$x = -\frac{1}{2} \quad x = 2$

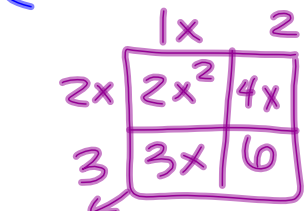
On your own...

Solve for x by factoring:

$14x = -4x^2 - 12$

$\frac{-4x^2}{-2} - \frac{14x}{-2} - \frac{12}{-2} = \frac{0}{-2}$

$-2(2x^2 + 7x + 6) = 0$



$(2x+3)(1x+2)$

$\frac{}{2} \quad \frac{}{2}$

$x + \frac{3}{2}$

$x = -\frac{3}{2} \qquad x = -2$

With Help...

Solve for x by factoring:

$-1 = -3x^2 - 2x$

$+1 \quad +1$

$0 = -3x^2 - 2x + 1$

$\frac{}{-1} \quad \frac{}{-1} \quad \frac{}{-1}$

GCF = -1

$0 = -1(3x^2 + 2x - 1)$

$0 = -1(3x - 1)(x + 1)$

$3x - 1 = 0 \qquad x + 1 = 0$

$+1 \quad +1$

$\frac{3x}{3} = \frac{1}{3}$

$x = -1$

$x = 1/3$

On your own...

Solve for x by factoring:

$3x^2 = -x + 2$

$-3x^2 \quad -3x^2$

$0 = (3x - 2)(x + 1)$

$3x - 2 = 0 \qquad x + 1 = 0$

$+2 \quad +2 \qquad -1 \quad -1$

$\frac{3x}{3} = \frac{2}{3} \qquad x = -1$

$(-3x + 2)(x + 1)$

$x = \frac{2}{3} \qquad x = -1$