Name: _____   Date: _____

THE METHOD OF ELIMINATION!
HOMEWORK

1. Solve each of the following systems by the Method of Elimination. These two should be relatively easy. Make sure to understand why.

(a) $x - y = 7$

$x + y = 5$

(b) $2x + 5y = 3$

$+ \quad -2x - y = 5$

$\dfrac{4y}{4} = \dfrac{8}{4}$

$y = 2$

Check

$2(-3.5) + 5(2) = 3$

$-7 + 10 = 3$

$3 = 3 \checkmark$

$2x + 5y = 3$

$2x + 5(2) = 3$

$2x + 10 = 3$

$\quad -10 \ -10$

$\dfrac{2x}{2} = \dfrac{-7}{2}$

$x = -3.5$

2. Solve each of the following systems by the Method of Elimination. These will be slightly harder than #1 because you will have to alter one of the equations by multiplication.

(a) $2(x - y = 15)2$

$4x + 2y = 30$

$2x - 2y = 30$

$+ \quad 4x + 2y = 30$

$\dfrac{6x}{6} = \dfrac{60}{6}$

$\boxed{x = 10}$

$x - y = 15$

$10 - y = 15$

$10 - (-5) = 15$

$\boxed{y = -5}$

(b) $2x + 3y = 17$

$5x + 6y = 32$