WORKSHEET 3.3 – Solving Systems by ELIMINATION

Name: _____ Hour: _____ Date: _____

DIRECTIONS: Solve each system of linear equations using the ELIMINATION METHOD.

1) $2x + 8y = 8$
    $3x - 2y = -16$

$(-4, 2)$

2) $8x + 2y = -10$
    $4x + 3y = 9$

$(-3, 7)$

3) $-2x + 3y = -15$
    $4x - 6y = -2$

NO
SOLUTION

4) $6x + 5y = -1$
    $8x + 2y = 8$

$\left(\dfrac{3}{2}, -2\right)$

5) $-4x + 6y = -4$
    $6x + 3y = 2$

$\left(\dfrac{1}{2}, -\dfrac{1}{3}\right)$

6) $8x + 2y = -8$
    $7x - 7y = 28$

$(0, -4)$

DIRECTIONS: Solve each system of linear equations using the ELIMINATION METHOD.

7) $2x + 3y = -10$
   $5x + 6y = -19$

$(1, -4)$

8) $12x - 9y = -18$
   $8x - 6y = -12$

INFINITELY MANY SOLUTIONS

9) $7x + 2y = 16$
   $12x - 2y = -16$

$(0, 8)$

10) $2x + 4y = 28$
    $-6x + 4y = -20$

$(6, 4)$

11) $4x + 12y = 15$
    $-3x - 9y = -8$

NO SOLUTION

12) $14x + 23y = -863$
    $9x - 46y = 2910$

$(-244, 111)$