Math-2A HW #6-12	Name	ID: 1
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SM2-A HW #6-12 (Review s	olving systems of equations)	

1) 
$$y = -3x - 5$$
  
 $y = 6x - 5$   
2)  $y = 6x - 4$   
 $y = -8x + 24$ 

## Solve each system by graphing.

3) $-4x - 2y = -20$	4) $4x + 4y = 8$
4x - 3y = 20	-4x - 2y = -8

5) One order at "In-n-Out Burger" had 7 hamburgers and 9 large milkshakes. The total cost (without tax) was \$54.50. Another order had 11 hamburgers and 13 milkshakes. The total cost (without tax) was \$82.50. Let x = cost of a hamburger, y = cost of a milkshake

(a) Write two equations that relate the total cost of the order to the number/cost of the hamburgers and drinks.

(b) Solve the sytem of equations by graphing. What is the cost of a hamburger? What is the cost of a milkshake?

6) One order at "Joe's Pizza Bar" had 8 large pizzas and 6 small pizzas. The total cost (without tax) was \$169.50. Another order had 5 large pizzas and 8 small pizzas. The total cost (without tax) was \$149.50. Let x = cost of a large pizza, y = cost of a small pizza

(a) Write two equations that relate the total cost of the order to the number/cost of the large/small pizzas

(b) Solve the sytem of equations by graphing. What is the cost of a large pizza? What is the cost of a small pizza?

## Solve each system by substitution. Show your work!

7) 
$$-8x + y = -23$$
8)  $x - 6y = -17$  $8x + 5y = 29$  $6x + 6y = 24$ 

9) 
$$y = -4x - 19$$
  
 $y = x + 6$   
10)  $y = 8x + 14$   
 $y = 4x + 6$ 

11) 
$$-2x - 2y = -6$$
  
 $y = -2x + 2$   
12)  $y = -3x - 4$   
 $7x + 4y = -1$