1. Two functions are shown below.

$$= 3x + 7$$

$$= 2x + 12$$

What is the value of x where the graphs of f(x) and g(x) intersect?

2. A system of equations is given below.

$$x + 2y = 5$$

$$2x + y = 4$$

Which system of equations does *not* have the same solution?

1.
$$3x + 6y = 15$$

$$2x + y = 4$$

2.
$$4x + 8y = 20$$

$$2x + y = 4$$

3.
$$x + 2y = 5$$

$$6x + 3y = 12$$

4.
$$x + 2y = 5$$

$$4x + 2y = 12$$

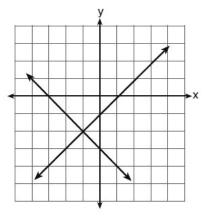
3. The equations 6x + 5y = 300 and 3x + 7y = 285 represent the money collected from selling gift baskets in a school fundraising event. If x represents the cost for each snack gift basket and y represents the cost for each chocolate gift basket, what is the cost for each chocolate gift basket?

- 1. \$20
- 2. \$25
- 3. \$30
- 4. \$54

6. At which point will the graphs of the equations 2x + y = 8 and x - y = 4 intersect?

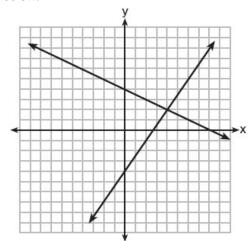
- 1. (0, 4)
 - 2. (4, 0)
- 3. (-4, 0)
- 4. (5, -2)

4. What is the solution of the system of equations shown in the graph below?



- 1. (1,0) and (-3,0)
- 2. (0,-3) and (0,-1)
- 3. (-1,-2)
- 4. (-2,-1)

5. A system of equations is graphed on the set of axes below.



The solution of this system is

- 1. (0,4)
- 2. (2,4)
- 3. (4,2)
- 4. (8,0)

7.	Solve the following system of	of equations	graphically
an	d check:		

- x + 2y = 4• y = 2x + 7

Answer: x =

and y =

Answer Key for system of equations

Question 3: 3 Question 1: 3 Question 2: 4 Question 4: 3 Question 5: 3 Question 6: 2

Question 7: -2, 3