

NAME \_\_\_\_\_

# Section 3.2

## ALGEBRA

Date \_\_\_\_\_ Period \_\_\_\_\_

### Determining Functions: Practice A

Determine if the following are functions... Write "function" or "not function" on the line.

|  |   |    |   |    |
|--|---|----|---|----|
|  | 1 | 2  | 3 | 4  |
|  | 4 | -2 | 5 | -3 |

|  |   |    |    |   |
|--|---|----|----|---|
|  | 0 | 8  | -2 | 6 |
|  | 7 | -2 | 8  | 1 |

|  |   |    |   |   |
|--|---|----|---|---|
|  | 4 | 3  | 4 | 6 |
|  | 6 | -1 | 2 | 6 |

\_\_\_\_\_

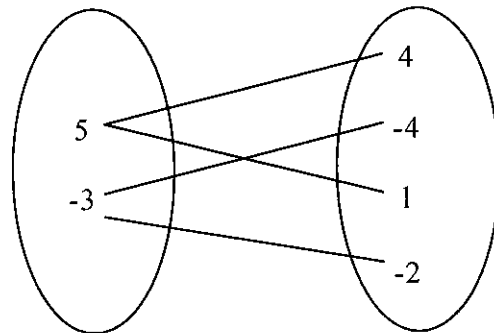
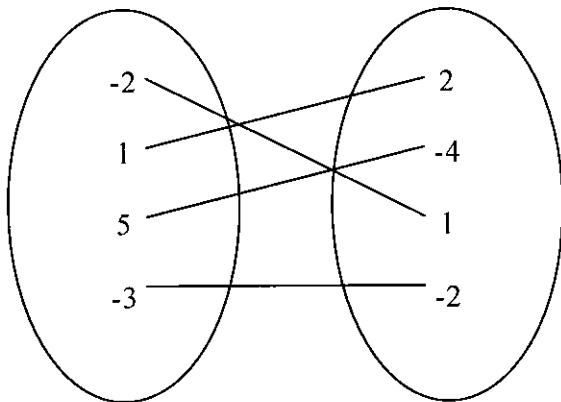
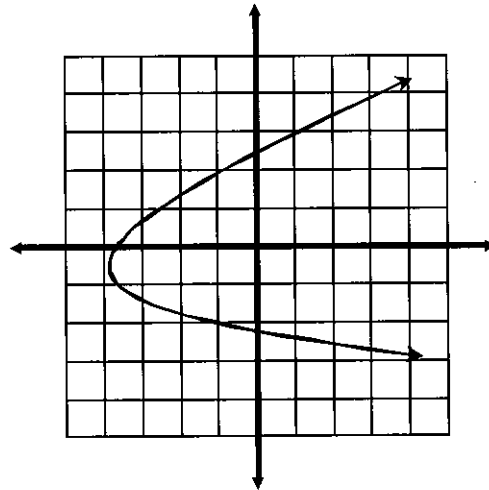
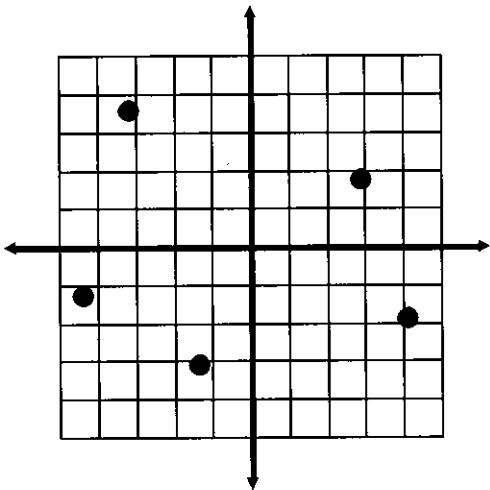
{ (6, 1), (4, 2), (6, -3), (2, 5) }

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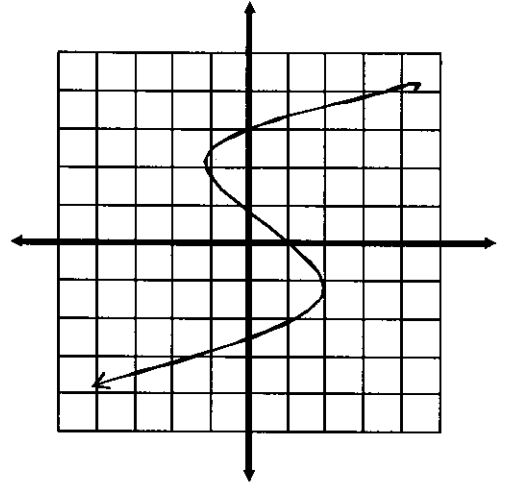
\_\_\_\_\_

{ (5, 8), (3, -2), (-2, -5), (0, 0) }

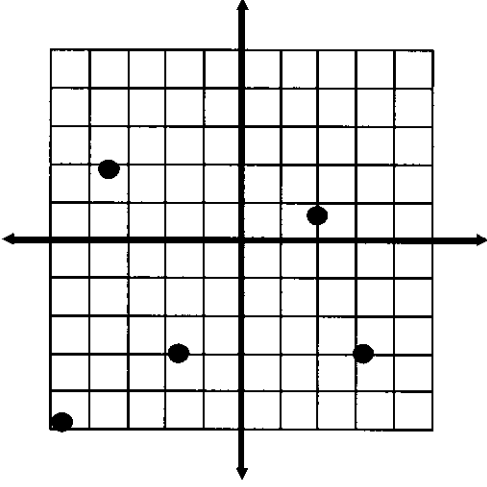
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$\{(5, 5), (4, 4), (3, 3), (2, 2)\}$



$\{(0, 2), (0, 4), (0, 6), (0, 8)\}$

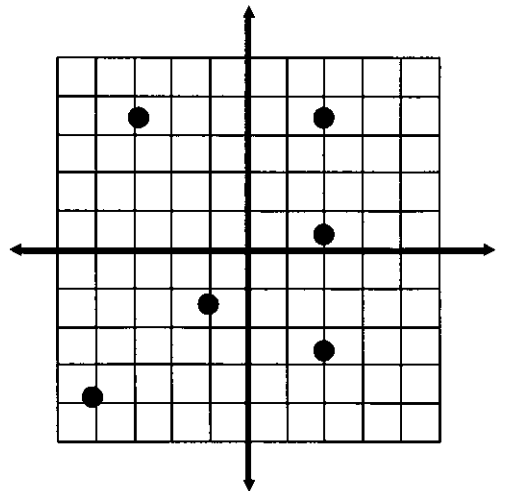


|  |   |    |   |    |
|--|---|----|---|----|
|  | 5 | -2 | 1 | -3 |
|  | 3 | 3  | 3 | 3  |

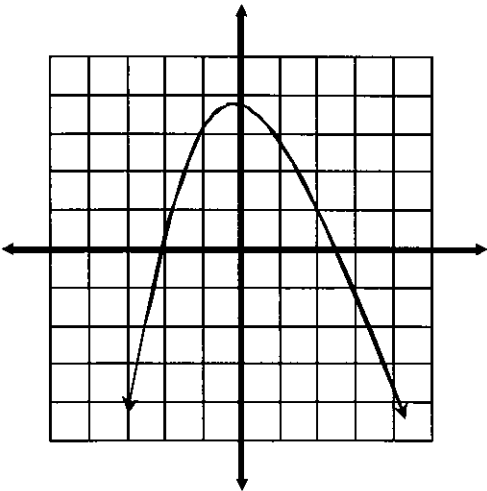
|  |   |   |   |   |
|--|---|---|---|---|
|  | 1 | 1 | 1 | 1 |
|  | 0 | 4 | 7 | 6 |

|  |    |   |   |   |
|--|----|---|---|---|
|  | -8 | 3 | 2 | 3 |
|  | 2  | 5 | 8 | 1 |

$\{(2, 4), (2, 5), (2, 6), (2, 7)\}$



$\{(0, 0), (3, -1), (-5, -5), (4, 0)\}$



## Homework

1. What is an equation of the line passing through the points  $(-1, -3)$  and  $(5, 6)$ ?

2. What is the equation of the line that contains point  $(3, -5)$  and has a slope of  $-3$ ?

3. What is the slope and y-intercept of the following equation:

$$2x - 3y + 6 = 0$$

4. What is the slope and y-intercept of the following equation:

$$4y + 2x = -8$$

## Word Problems

1. The temperature in a city began to decrease at a constant rate once a cold front began to move in. The temperature was  $49^{\circ}$  F after 2 hours and  $39^{\circ}$  F after 6 hours. Suppose  $x$  is the number of hours since the cold front began to move in, and  $y$  is the temperature in  $^{\circ}$  F. What is the equation that models this situation?

2. Mrs. Smith's science class needs to collect \$48.00 to purchase a hamster, food and bedding. In addition, the class will need \$50.88 for its cage and supplies. If there are 24 students in the class, what is the average amount each student must collect?