SPIRAL PRACTICE #1

Proportional/NonProportional

Directions: Use the dropdown box to determine if it is proportional or nonproportional

1.

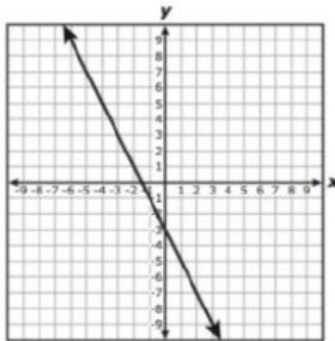| x	y
1	7.5
4	30
7	52.5
10	75

2.

x	y
−5	11
−1	−1
1	−7
8	−28

3.

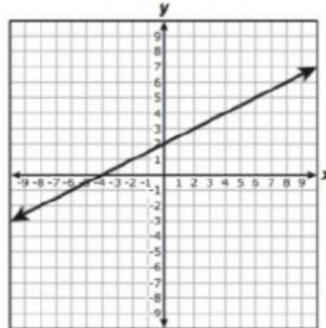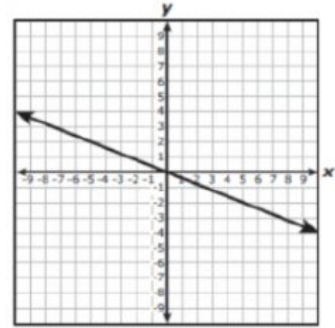| x	y
1	−4
3	−12
7	−28
15	−60

4.

5.

6.

7. The cost of purchasing p pounds of bananas for $0.55 per pound

8. The weight in x weeks of a puppy that gains 2 pounds per week if its starting weight is 8 pounds.

9. The amount an employee who makes 48.50 per hour earns in h hours

Transformation Rules

Directions: Draw a line that matches the description to the algebraic rule

Reflect over the x-axis $(x, y) \rightarrow (x + 4, y - 5)$

Rotate 180º $(x, y) \rightarrow (x, -y)$

Translation $(x, y) \rightarrow (-x, y)$

Reflect over the y-axis $(x, y) \rightarrow (-x, -y)$

Rotate 90º counter clockwise $(x, y) \rightarrow (-y, x)$

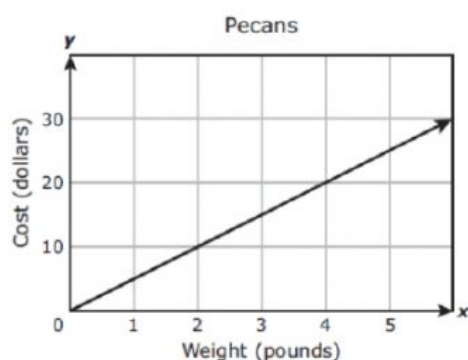Rotate 270º counter clockwise $(x, y) \rightarrow (y, -x)$

Ordering

Directions: Drag the numbers in order from least to greatest

$$6\frac{7}{8}, \quad \sqrt{45}, \quad -\pi, \quad -3$$

☐   ☐   ☐   ☐

Write an Equation

Directions: Use numbers to fill in the blocks to create equations for the graph and table

Pecans

Ticket Sales

Hours Since 4 P.M.	Number of Tickets Remaining
1	12,000
2	9,000
3	6,000
4	3,000
5	0

$y = \underline{\quad} x + \underline{\quad}$ $y = \underline{\quad} x + \underline{\quad}$