Solve It #1

The table shows the number of gallons of gasoline in a car's gas tank after the car has been driven x miles.

Gasoline Usage

Miles Driven, x	Gallons of Gasoline in Tank, y
0	15
10	14.6
20	14.2
35	13.6
60	12.6
75	12

When these data are graphed on a coordinate grid, the points all lie on the same line. What are the slope and y-intercept of this line?

20	Slope $= -\frac{1}{25}$, y-intercept $= 15$
13	Slope $= -25$, y-intercept $= 15$

Figure *ABCDE* is similar to figure *VWXYZ*.

Which proportion must be true?

15	$\frac{AB}{VW} = \frac{YZ}{DE}$
35	$\frac{AB}{VW} = \frac{CD}{XY}$

The graph shows the relationship between the cost of some pecans and the weight of the pecans in pounds.

Which function best represents the relationship shown in the graph?

2	$y = 5x$
7	$y = \frac{1}{2}x$

Use your answers to the Set 1 problems to solve for x.

$$\bigcirc - x = \trapezoid - \parallelogram\, x$$

Solve It #2

Which set of ordered pairs represents y as a function of x?	
6	$\{(2, 5), (3, 1), (2, 1), (4, 7)\}$
2	$\{(3, 2), (4, 3), (5, 2), (2, 6)\}$

Leanor pays a total of $16.50 for every 6 shirts she has dry-cleaned. Which graph models a relationship with the same unit rate?	
13	
24	

Melissa is saving $25 that she earned for washing her mom's car. She earns $10 every week for doing chores, which she also saves. Which function can be used to find t, the amount of money Melissa will have saved at the end of n weeks of doing chores?	
4	$t = 10n + 25$
9	$t = 25n + 10$

Use your answers to the set 2 problems to solve for y.

$$\bigcirc\ y - \square = y + \square$$

Put it Together

____ ____ x	____ ____ y