Name_____

PART A: For each function below, fill in the missing inputs and outputs.

1. $y = \frac{1}{4}x + 9$

Input (x)	Output (y)
4	
	20

2. $y = \frac{1}{3}x + \frac{2}{3}$

Input (x)	Output (y)
10	
	2

3. $y = 2x + (-4)$

Input (x)	Output (y)
-2	
	2

4. $2x - 5y = 24$

Input (x)	Output (y)
7	
	2

PART B: Analyze the functions listed in each box. The variable *x* represents the *input* and *y* is the *output*. Circle all of the statements that apply to the function listed in the box.

5.

$$y = 4x + 8$$

a. When the input is 2 the output is 14

b. When the input is 3 the output is 20

c. It's graph is a straight line

d. The y-intercept is (0,8)

e. y is a function of x

6.

$$y = -8x - 4$$

a. The y-intercept is (-4,8)

b. The y-intercept is (0,-8)

c. y is a non-linear function

d. When the input is -1 the output is 4

e. It's graph crosses the y-axis is -4

7.

$$y = -\frac{5}{3}x + \frac{1}{3}$$

a. y is a function of x

b. When the input is 10 the output is -8

c. When the input is 5 the output is -8

d. It's graph passes through the point (8,-13)

e. The y-intercept is (0,-1)