Name_____

ANALYZING EQUATIONS #1

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

1. $y = \frac{1}{2}x + 9$

Input (x)	*Output (y)*
4	
	14

2. $y = \frac{1}{4}x + \frac{3}{4}$

Input (x)	*Output (y)*
9	
	2

3. $y = -2x + 4$

Input (x)	*Output (y)*
7	
	4

4. $2x + 5y = 24$

Input (x)	*Output (y)*
7	
	4

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. $y = 2x + 10$

a. When the input is 2 the output is 14

b. When the input is 3 the output is 18

c. It's graph is a straight line

d. The y-intercept is (0,2)

e. y is a function of x

6. $y = -8x - 2$

a. The y-intercept is (-2,0)

b. The y-intercept is (0,-2)

c. y is a linear function

d. When the input is -1 the output is 7

e. When the input is 1/2 the output is -6

7. $y = -\frac{6}{5}x + \frac{1}{5}$

a. y is a *not* a function of x

b. When the input is 15 the output is -8

c. When the input is 1 the output is -1

d. When the input is 6 the output is -7

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