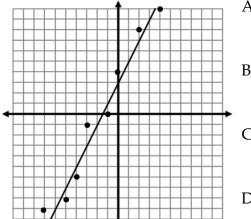
## **WORKSHEET 4.5 – Interpreting Data**

Name: \_\_\_\_\_

\_\_\_\_\_ Hour: \_\_\_\_\_ Date: \_\_\_

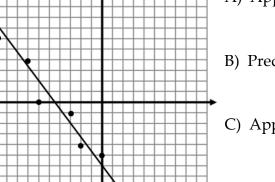
**SECTION 1:** Use the given equations to interpolate and extrapolate the requested values.

1) This data is modeled by the equation y = 2x + 3.



- A) Approximate the value of y when x = 1.
- B) Approximate the value of *x* when y = 5.
- C) Predict the value of y when x = 12.
- D) Predict the value of *x* when y = -37

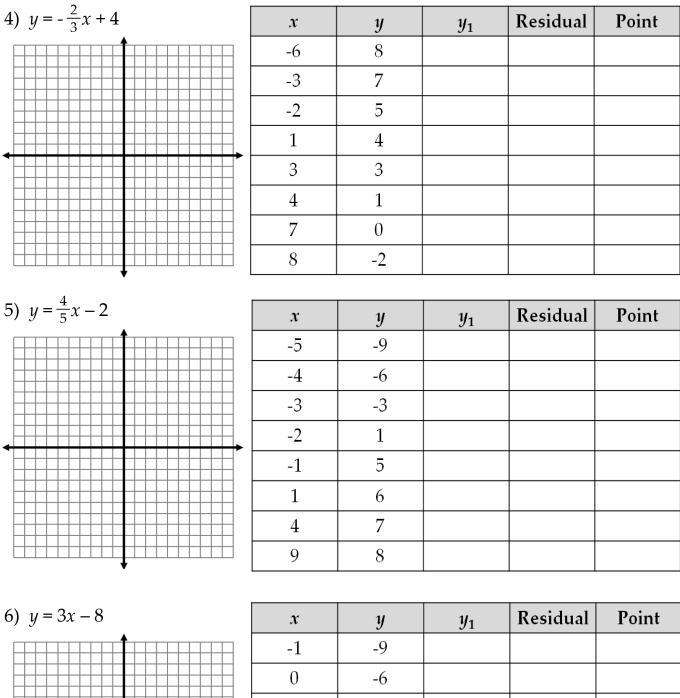
2) This data is modeled by the equation  $y = -\frac{3}{4}x - 6$ .

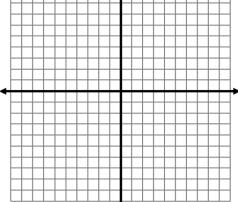


- A) Approximate the value of *y* when x = -6.
- B) Predict the value of y when x = -108.
- C) Approximate the value of *x* when y = 3.
- D) Predict the value of *x* when y = 17.

3) This data is modeled by the equation y = <sup>5</sup>/<sub>2</sub>x + 1.
A) Predict the value of y when x = 8.
B) Approximate the value of x when y = -5.
C) Approximate the value of y when x = -4.
D) Predict the value of x when y = -439.

**SECTION 2:** Calculate the residuals of each set of data, then graph to determine if the given equation is a good model for the data.





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-1	-9			
0	-6			
1	-7			
2	-3			
3	0			
4	5			
5	6			
6	10			