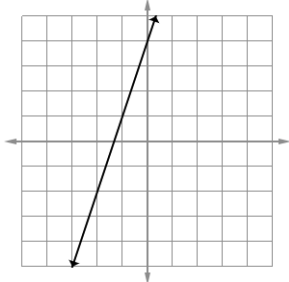


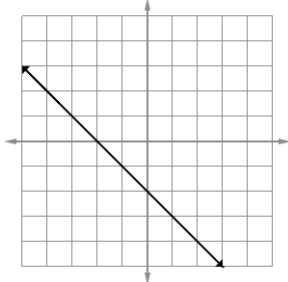
Equation Master

**Answer** the questions completely.

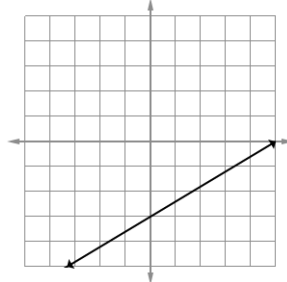
1. **Match** each equation with its graph.



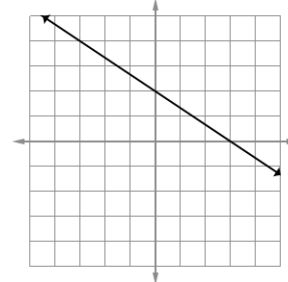
Equation: \_\_\_\_\_



Equation: \_\_\_\_\_



Equation: \_\_\_\_\_



Equation: \_\_\_\_\_

Equations

A)  $2x + 3y = 6$

B)  $y = 3x + 4$

C)  $y + 2 = -x$

D)  $3x - 5y = 15$

2. Investigation.

First, **plot** the following points on the graph.

$A(6, 2)$

$B(2, 2)$

$C(0, 2)$

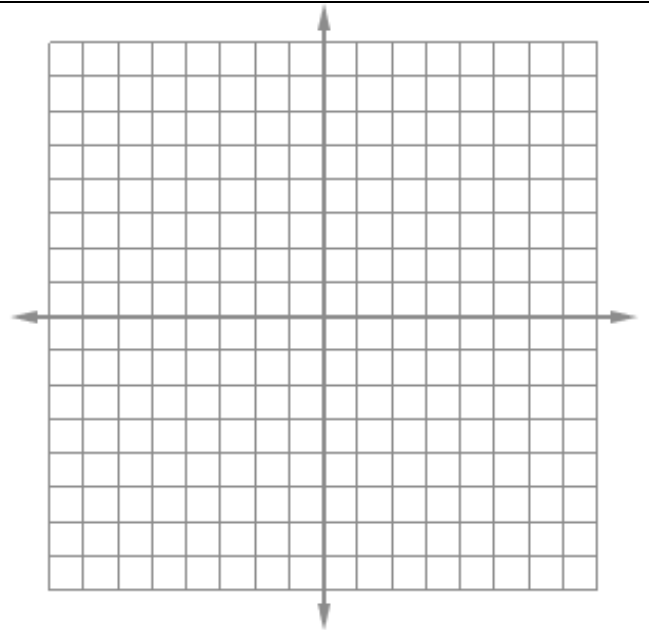
$D(-5, 2)$

$E(-7, 2)$

Second, **connect** the points with a line.

Third, **describe** the line containing all five points with an *equation*.

Fourth, make an **inference** about what this demonstrates.



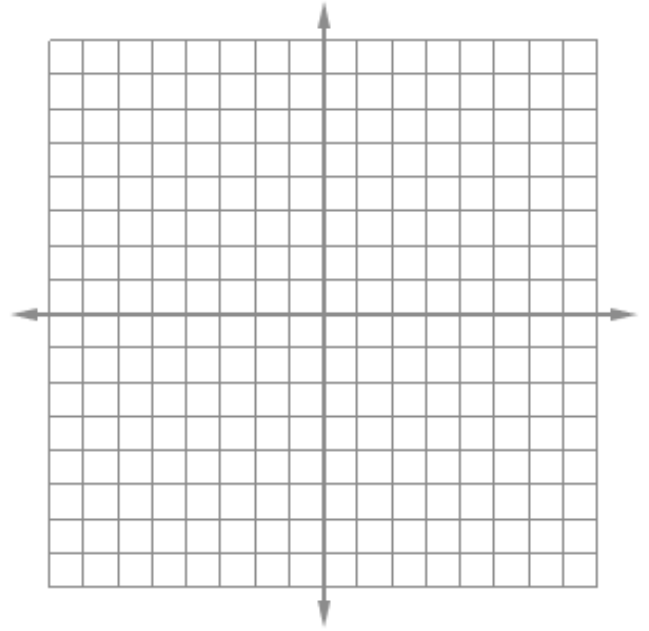
3. Investigation, continued.  
First, **plot** the following points on the graph.

- $A(-3, -8)$
- $B(-3, -1)$
- $C(-3, 0)$
- $D(-3, 3)$
- $E(-3, 5.5)$

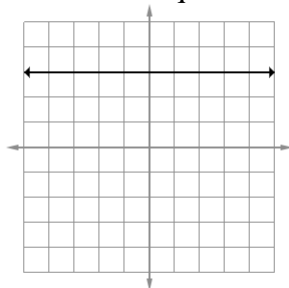
Second, **connect** the points with a line.

Third, **describe** the line containing all five points with an *equation*.

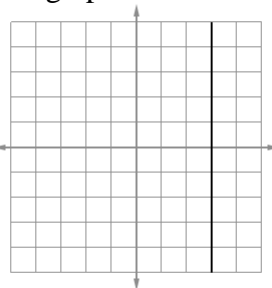
Fourth, **evaluate** your earlier inference. Does it still hold true? Does it need to be adjusted?



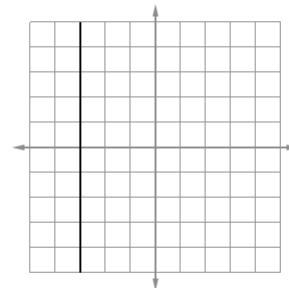
4. **Match** each equation with its graph.



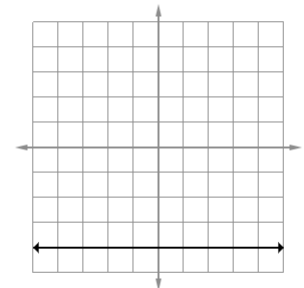
Equation: \_\_\_\_\_



Equation: \_\_\_\_\_



Equation: \_\_\_\_\_



Equation: \_\_\_\_\_

Equations

E)  $2x = 6$

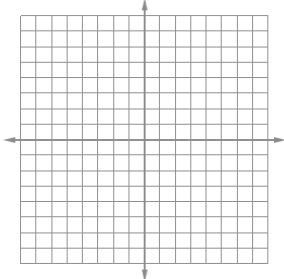
F)  $y = 3$

G)  $5y = -20$

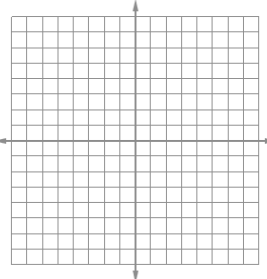
H)  $x = -3$

5. **Graph** each equation.

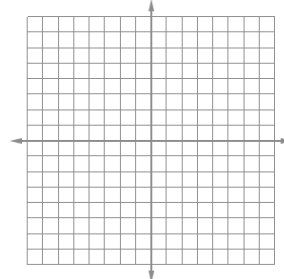
I)  $y = -3$



J)  $x = 3.5$



K)  $3y = -21$



L)  $x = -2 + y$

