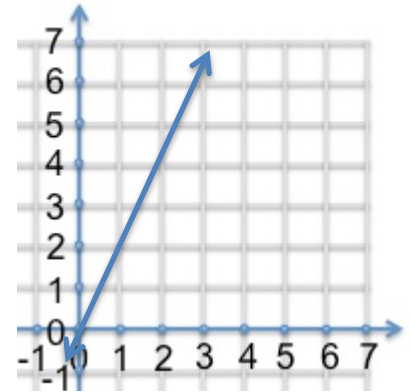


**Please show all of your work for the following.**

1. Identify whether or not the following graph represents a direct proportion. If so, what is the constant of proportionality?



Yes or No?

How do you know? \_\_\_\_\_

\_\_\_\_\_

Constant of Proportionality \_\_\_\_\_

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

2. Tell whether or not the table below is a direct proportion. If so, write the direct proportion equation.

x	4	5	7	9
y	8	10	14	18

Is it a Direct Proportion? \_\_\_\_\_

What is the equation? \_\_\_\_\_

3. Solve for x.  $3x + 9 = 2(x + 5) + 3$

**Factor the following expressions. Show all of your work.**

4.  $-27x - 45y$

5.  $18m - 36k + 48$

6. Find the **area and circumference** of a circle whose diameter is 12.

**Simplify each expression. Show all of your work.**

7.  $\frac{1}{4}x + \frac{2}{3}x - \frac{1}{6}x$

8.  $0.035y + 2.3y - y$

9.  $-2.6m + 4.6m - 1.3m$

10.  $\frac{4}{3}z + \frac{2}{3}z - \frac{1}{3}z$