

## **STATION 1:**

Point A: (3,6) Point B: (5, -12) Point C is (0, 0)

1) Find the midpoint of  $\overline{AB}$

2) Find the slope of  $\overline{AB}$

3) Find the slope of the line perpendicular to  $\overline{CB}$

4) Are A, B, and C Collinear?

## **STATION 2:**

Find the slope of the median and altitude from A if a triangle is formed by connecting points

A (-2, 10) B (-4, 3) C (6, 5)

### **STATION 3:**

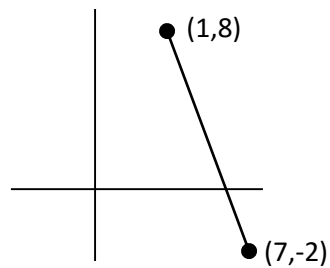
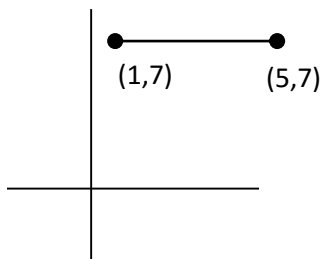
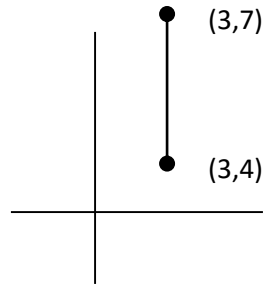
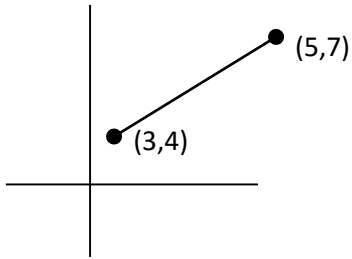
Are  $(-2,3)$ ,  $(4,6)$ , and  $(8,8)$  collinear??? Explain!

### **STATION 4:**

$(9, 2)$  and  $(k, 7)$  are on a line with slope  $\frac{-3}{5}$ . Find  $k$ .

## STATION 5:

First determine if the slope is positive, negative, zero, or undefined. Then determine the value of the slope.



## STATION 6:

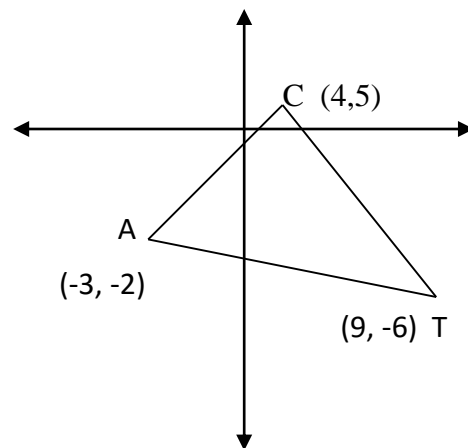
Given 2 points  $(1,5)$  and  $(-4,2)$ , Write the equation of the line in:

1. Point Slope Form
2. Slope Intercept Form
3. Standard Form

## STATION 7

Use the diagram at the right for problems

1. What is the slope of  $\overline{AT}$ ?
2. What is the slope of the altitude to  $\overline{AT}$ ?
3. What is the slope of the line through C parallel to  $\overline{AT}$ ?
4. What is the slope of the median to  $\overline{AT}$ ?



## STATION 8:

Graph the Following:

a.  $4y - 6x = 12$

b.  $y - 5 = \frac{-3}{4}(x + 5)$