

## Module 4 : Linear Equations

### Part B – Verify the y-intercept between points

In order to verify the slope between 2 or more points, use the STAT mode.

**MODE** **2**

**1** COMP **2** STAT  
**3** TABLE

Once in this menu select linear form for an equation 2: A + Bx.

**2**

1: 1-VAR 2: A+BX  
3:  $-+CX^2$  4:  $\ln X$   
5:  $e^X$  6:  $A \cdot B^X$   
7:  $A \cdot X^B$  8:  $1/X$

Enter 2 points that you are verifying the slope for (2,3) (-7,12) Enter the x coordinates in the X list and the Y coordinates in the Y list. Use the **=** to enter the value and the arrow keys to navigate between lists.

**2** **=** **(←)** **7** **=** **▶** **▲** **▲** **3** **▼**  
**=** **1** **2** **=**

STAT X Y  
1 2 3  
-7 12

Press the **AC** key to clear the screen and select the slope. The slope is in the STAT menu above the number 1.

**SHIFT** **1**

**÷** **CALC** **Abs** **√** **√** **5** to get to the Reg menu for the slope.

Finally press 1: A for the slope.

**1** **=**

1: Type 2: Data  
3: Sum 4: Var  
5: Reg 6: MinMax

1: A 2: B  
3: r 4:  $\bar{x}$   
5:  $\bar{y}$

STAT 0  
A  
5