TABLE TO Y = MX + B

When you are given a table and asked for the equation Y = MX + B here are the steps to follow:

1) Find the slope
   a. Calculate the change in Y by subtracting
   b. calculate the change in x by subtracting
   c. Slope = $\frac{change\ of\ Y}{change\ of\ X}$
2) Once you know the slope, you need to find the y-incept.
   a. If the table has an x value of 0, the corresponding Y value is the y - intercept
   b. If it does not then pick one ordered pair from the table and solve the equation for B.

X	Y
-5	-9
-3	-3
0	6
2	12

+2 +6

$\frac{Y}{X} = \frac{6}{2} = 3$

M=3

B=6

12 = 3(2) + 6 ✓

Y = 3x + 6

X	Y
-2	2
1	-4
4	-10
10	-22

+3 -6

$\frac{Y}{X} = \frac{-2}{1} = -2$

Y = MX + b

-10 = (-2)(4) + b

-10 = -8 + -2

Y = -2x - 2

-4 = -2(1) - 2

-4 = -2 - 2 ✓

Check