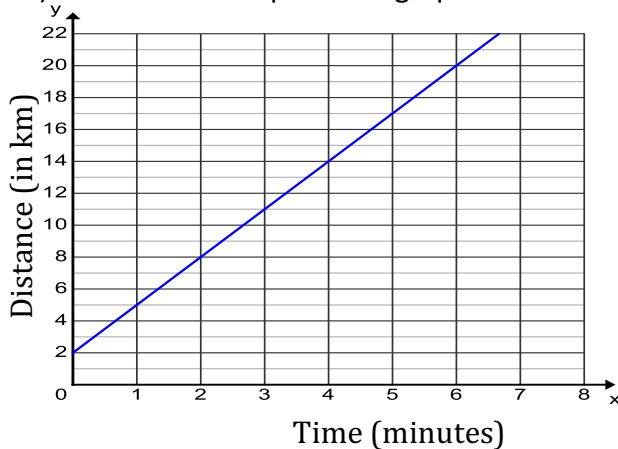1. Calculate the first differences. Determine whether the relationship is linear or non-linear. Explain how you know.

X	Y
0	15
3	11
6	7
9	3
12	-1
15	-5
18	-9

2. a) Calculate the slope of the graph below.

Time (minutes)

b) Calculate the slope from the table of values.
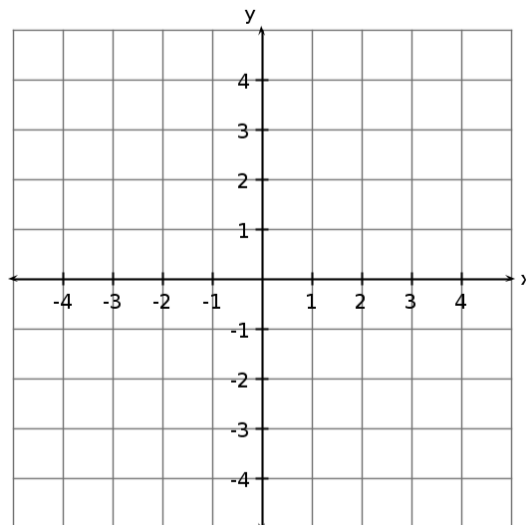
x	y
0	80
5	70
10	60
15	50

c) Interpret the meaning of the slope (rate of change) in 2(a)

3. Graph a line with slope -3 on the grid below. (Start at the point already plotted for you.)
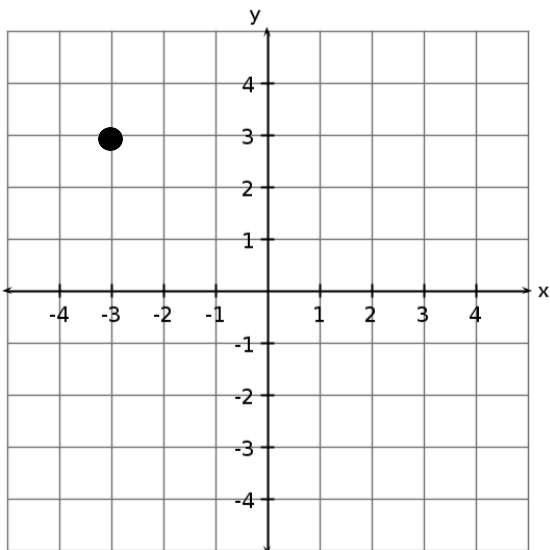
4. A line has a slope of $\frac{1}{4}$ and goes through the point (-4, -3). What is another point on that line? (you may do this graphically or algebraically)

Answer: (,   )