## Quiz 4

74. part a) The tangent line passes the points with approximate coordinates (1,0) and (3,15). Using the slope formula this means  $P'(3) \approx 15-0 = 7.5$ 

Part b) P'(x)=0 means to look at the x-coordinates of any point on the graph that has a horizontal tangent line. This happens at approximatly x=1.7 and x=4.1

Part c) Draw a line with slope 5 by using the idea of "rise over "un" and the grid on the picture to find the points where the tangent line is parallel to it. This happens at approximately X=2.2 AND X=3.6 Either answer is acceptable.

75. J'(x) is 0 at x=0. The maximum slope value on the graph is about 1.5 which occurs at about 1.3=x. Similarly the minimum slope value on the graph is about -1.5 which occurs at about x=-1.3 The sketch of the graph of y=J'(x) is given below.

