(1) Let f(x) be given by the table

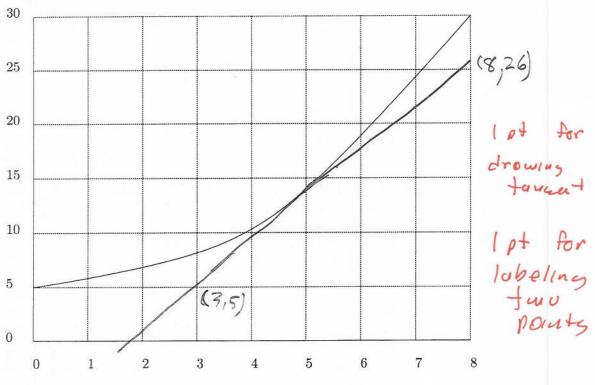
x	1.0	1.2	1.4	1.6
f(x)	3.1	3.8	4.6	5.6

Make a table for f'(x)

$$\frac{f_{ov 1.1}}{\frac{\Delta f_{ov 1.1}}{\Delta \chi}} = \frac{x}{\frac{3.8 - 3.1}{1.2 - 1.0}} = 3.5 \frac{x}{f'(x)} = 3.5 \frac{4.0}{5.0}$$

(2) The for the function with the following graph:

3 pts



draw the tangent line at the point where x=5, label two points on this line and use them to estimate f'(5)

$$f(5) = slove of toncout f'(5) \approx 3.8$$

$$line = \frac{ab}{ax} = \frac{26-5}{8-3} line to lowely$$

$$= \frac{19}{5} = 3.8 the to lowely to find f(5).$$