MATH 101-11(142) QUIZ # 3

Q1. If f is continuous at x_0 , is it true that f must also be differentiable at x_0 ? Justify your answer.

Q2. Find equations for the horizontal tangents to the curve

$$y = x^3 - 3x - 2$$

Q3. Suppose u and v are functions of x that are differentiable at x=0 and that u(0)=5, u'(0)=-3, v(0)=-1, v'(0)=2. Find $\frac{d}{dx}(\frac{v}{u})$ at x=0