## King Fahd University for Petroleum and Minerals Department of Mathematics & Statistics

Term 172 Math 101 (15) Quiz#3 (3.1, 3.2 and 3.3)

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Q1. Find the equation of the tangent line(s) to  $f = \sqrt[3]{x}$  that passes through (-16,0).

Q2. If  $f(x) = \begin{cases} \frac{x}{e^x} & x < 0 \\ x+1 & 0 < x < 1 \\ \cos x + \sec x + x & x \ge 1 \end{cases}$ , find f'(1) and f'(0) if they exist and explain if they are not.