King Fahd University of Petroleum & Minerals Department of Mathematics and Statistics (Semester 181) Math 101 Quiz # 6

Name:	ID#	Sr #
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- 1. Find the point on the curve $y = \sqrt{x}$ that is closest to the point (3,0).
- 2. Use Newton's method to approximate the root of $3x^4 8x^3 + 2 = 0$ (using $x_1 = 1$, calculate only x_2).
- 3. Given $f''(x) = \cos x + \sin x$, f(0) = 3, f'(0) = 4, find f(x).