QUIZ 2

- Show all your work and indicate your final answer clearly. You will be graded not merely on the final answer, but also on the work leading up to it.

1. (3 points) Find the derivative of the function $f(x) = x \sin(x)$.

2. (4 points) Calculate $f'(0)$ where $f(x) = \dfrac{2x^2 - 3}{x - 1}$.

3. (3 points) Find the equation of the tangent line to the graph of $y = \sqrt{1 - x^2}$ at the point $(0, 1)$.