

## Basic Differentiation Quiz

1. 
$$F(X) = \frac{9}{\sqrt[3]{(x^2 - 3x^5)^2}}$$

2. 
$$Y = (3x + 2)^3(x - x^3)^5$$

3. 
$$F(x) = \frac{\sqrt{1 - 2x^2}}{\sqrt[3]{2x - x^2}}$$

4. Find the equation of the tangent line at  $x = 1$

$$y = x^2 - 2x - \frac{2}{\sqrt{x^3}} - 24x + 100$$