Quiz

Name:

Find the following derivatives:
1.
$$f(x) = 3x^4 - 9x^3 + 2x - 3$$

 $f'(x) =$

2.
$$D = 4^{\frac{1}{3}} - \frac{7}{t^2}$$

$$\frac{dD}{dt} =$$

$$3. \ s = \frac{\sqrt[3]{A}}{6}$$
$$\frac{ds}{dA} =$$

4.
$$T(\theta) = \sin \theta + 4\cos \theta + 6\tan \theta$$

 $T'(\theta) =$

$$5. F(x) = 3 \cdot 9^x$$
$$F'(x) =$$

6. Write the microscope equation for $y = 2 - x^3$ at the point where x = 2.

7. The graph of y = f(x) is given below. Graph the derivative f = f'(x) on the same axis.