## Quiz

Name:
Find the following derivatives:

1. $f(x)=3 x^{4}-9 x^{3}+2 x-3$
$f^{\prime}(x)=$
2. $D=4^{\frac{1}{3}}-\frac{7}{t^{2}}$
$\frac{d D}{d t}=$
3. $s=\frac{\sqrt[3]{A}}{6}$
$\frac{d s}{d A}=$
4. $T(\theta)=\sin \theta+4 \cos \theta+6 \tan \theta$
$T^{\prime}(\theta)=$
5. $F(x)=3 \cdot 9^{x}$
$F^{\prime}(x)=$
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 $f=f^{\prime}(x)$ on the same axis.
