## Answer on Question \#76370 - Math - Calculus

## Question

-Find the derivative of $f(x)=8 x^{2}+11 x$ at $x=7$.

## Solution

$$
\begin{gathered}
f^{\prime}(x)=16 x+11 \\
f^{\prime}(7)=16 \cdot 7+11=123 \\
\text { Question }
\end{gathered}
$$

-Find the derivative of $f(x)=3 x+8$ at $x=4$.
Solution

$$
\begin{aligned}
& f^{\prime}(x)=3 \\
& f^{\prime}(4)=3
\end{aligned}
$$

## Question

-Find the derivative of $f(x)=\frac{5}{x}$ at $x=-1$.

## Solution

$$
\begin{aligned}
& f^{\prime}(x)=-\frac{5}{x^{2}} \\
& f^{\prime}(-1)=-5
\end{aligned}
$$

## Question

-Find the derivative of $f(x)=-\frac{7}{x}$ at $x=-3$.
Solution

$$
\begin{aligned}
& f^{\prime}(x)=\frac{7}{x^{2}} \\
& f^{\prime}(-3)=\frac{7}{9}
\end{aligned}
$$

