

Name: ANSWER KEYScore: Use synthetic division to evaluate $f(x) = 9x^3 - 6x^2 + 3x - 4$ at $x = \frac{1}{3}$.

$$\begin{array}{r|rrrr} \frac{1}{3} & 9 & -6 & 3 & -4 \\ & & 3 & -1 & \frac{2}{3} \\ \hline & 9 & -3 & 2 & \boxed{-3\frac{1}{3}} \end{array} = f\left(\frac{1}{3}\right)$$