A function, $f$, is defined on the set of real numbers by $f(x)=x^{3}-7 x-6$.
Determine whether $f$ is increasing or decreasing when $x=2$.

Answer:
Differentiate to obtain $f^{\prime}(x)$.
Substitute to show that $f^{\prime}(2)=5>0$.
Conclude that $f$ is increasing when $x=2$.

