

1. Find $(f^{-1})'(x)$ at $x = 1$ if $f(x) = x^3 - 3x^2 + 2x + 1$.

2. Find $(f^{-1})'(x)$ at $x = 1$ if $f(x) = x^5 + 3x^3 - 2x^2 + x - 2$.

3. Find $(f^{-1})'(x)$ at $x = 3$ if $f(x) = \sqrt{x^2 - 7}$ for $x \geq \sqrt{7}$.

4. Find $(f^{-1})'(x)$ at $x = -9$ if $f(x) = x^5 + 3x^3 - 2x^2 + x - 2$.

5. Find $(f^{-1})'(x)$ at $x = -3$ if $f(x) = 1 + 3x + x^3$.