

Mean Value Theorem for Derivatives

Directions: If applicable, verify the hypotheses of the Mean Value Theorem for Derivatives and then find the values that satisfy the conclusion of the theorem.

1. $f(x) = x^2 - 5x + 4$ on $[0,6]$.

2. $f(x) = x^3 - 4$ on $[1,2]$.

3. $f(x) = x^{\frac{1}{3}}$ on $[1,8]$

4. $f(x) = x^{\frac{2}{3}} - 5x + 1$ on $[-1,3]$

5. $f(x) = e^{2x} - 1$ on $[0,1]$