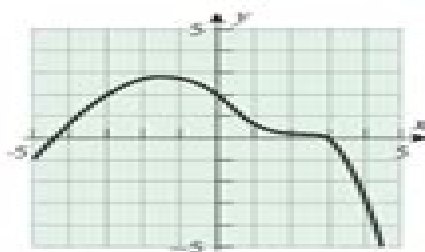


Assignment No. 02

Calculus and Analytical Geometry

Q1.

For the function graphed in the accompanying figure, arrange the numbers 0, $f'(-3)$, $f'(0)$, $f'(2)$, and $f'(4)$ in increasing order.



Q2. Justify in each given case.

- (a) If you are given an equation for the tangent line at the point $(a, f(a))$ on a curve $y = f(x)$, how would you go about finding $f'(a)$?
- (b) Given that the tangent line to the graph of $y = f(x)$ at the point $(2, 5)$ has the equation $y = 3x - 1$, find $f'(2)$.
- (c) For the function $y = f(x)$ in part (b), what is the instantaneous rate of change of y with respect to x at $x = 2$?

Q3.

Find a formula for

$$\frac{d}{dx} [f(g(h(x)))]$$

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A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the University of California, San Diego text.

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