

K	Find the rate of change of $y = (4x^3 + 7x^2 + 1)^2$ at $x = -1$.	-16
N	$f(x) = \sqrt{x^2 + 2x + 8}$ find the instantaneous rate of change at 2	$\frac{3}{4}$
O	$f(x) = \frac{3x+2}{x-1}$ find $f'(0)$	-5
W	$f(x) = \frac{1}{3}x\sqrt{x^2 + 5}$ find $f'(2)$	13/9
L	Find the average rate of change of $g(x) = x^2 + e^x$ [0, 1]	E
I	A particle's motion is modeled by the function $x(t) = t^2 - 4t - 3$. Find the average velocity on the interval [0, 3]	-1
M	Find where the function $\ln(x^2 - 3x + 5)$ has a horizontal tangent	3/2
I	$s(t) = 3t^4 - 8t^3 + 6t^2 + 3$. When does the particle change directions on the interval [-10, 10]	0
T	$f(x) = \frac{1}{9}(3x+1)^3$ find $f''(1)$	24
S	$G(5)=-3$, $g'(5) = 6$, $h(5) = 3$ and $h'(5) = -2$, find $f'(5)$ if $f(x) = [g(x)]^3$	162