

Find the average rate of change of the function over the given interval.

1) $f(x) = x^2 + 2x$, $[1, 7]$

A) 10

B) $\frac{60}{7}$

C) $\frac{21}{2}$

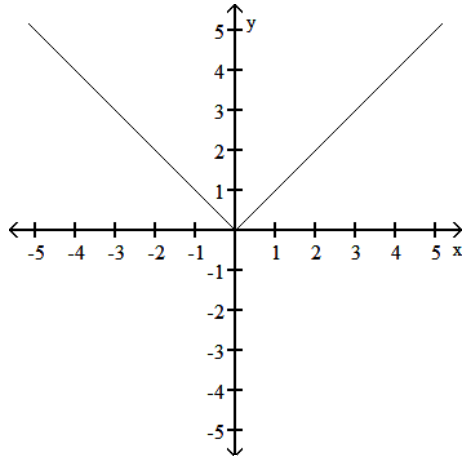
D) 9

Find the slope of the line tangent to the curve at the given value of x using a definition of the derivative .

2) $f(x) = \frac{-2}{x+5}$; $x = -2$

3) $f(x) = x^2 + 7x$ at $x = 8$.

The figure shows the graph of two functions. At $x = 0$, does the function appear to be differentiable, continuous but not differentiable, or neither continuous nor differentiable?



4)

