MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.



Estimate the slope of the tangent line to the curve at the given point.



Use the definition $f'(x) = \frac{\lim_{h \to 0} \frac{f(x+h) - f(x)}{h}}{h}$ to find the derivative at x.

3) $f(x) = 21x - 3$				3)
A) 21	B) -21	C) 21x	D) 18	
4) $f(x) = x^2 + 5$				4)
A) $x + 5$	B) $2x + 5$	C) 2x ²	D) 2x	

The figure shows the graph of a function. At the given value of *x*, does the function appear to be differentiable, continuous but not differentiable, or neither continuous nor differentiable?

5) x = -1

5) _____

A) Differentiable

B) Continuous but not differentiable

C) Neither continuous nor differentiable

Answer Key Testname: TANGENT LINE AND THE DERIVATIVE AT A POINT

1) C 2) D 3) A 4) D

5) B