

10.3 Tangent Line Problem

Example 1



The graph of the function $f(x) = 2x - x^2$ is shown above. How fast is the graph of $f(x)$ changing at $x = 3$? What is the slope of the tangent line to $f(x) = 2x - x^2$ when $x = 3$? Using your calculator, estimate the average rate of change (slope) of the function $f(x) = 2x - x^2$ between the points $(3, 6)$ and $(5, 5)$ and compare the result to the slope of the tangent line.

(a) $f'(3) = 0$

(b) $f'(3) = 3$

(c) $f'(3) = 4$

(d) $f'(3) = 5$

Without using your calculator or graphing tool, how fast is the graph of $f(x) = x^2$ changing at $x = 2$? What is the slope of the tangent line at $x = 2$?

Calculus Maximus Notes 2 1 Tangent Line Problem 2 1

Clemens Wendtner



Calculus Maximus Notes 2 1 Tangent Line Problem 2 1:

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