



# Calculus 1 Workbook

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Definition of the derivative

## DEFINITION OF THE DERIVATIVE

■ 1. Use the definition of the derivative to find the derivative of  $f(x) = 2x^2 + 2x - 12$  at  $(4, 28)$ .

■ 2. Use the definition of the derivative to find the derivative of  $g(x) = 3x^3 - 4x + 7$  at  $(-2, -9)$ .

■ 3. Use the definition of the derivative to find the derivative of  $h(x) = 9x^2 - 7x - 4$  at  $(2, 18)$ .

■ 4. Use the definition of the derivative to find the derivative of  $h(x) = 8x^2 - 19x + 15$  at  $(2, 9)$ .



