



Lesson 2.3 – Definition and Properties of the Derivative

1. (a) Write down the limit definition of the derivative of the function f .
(b) Use the limit definition of the derivative to find the derivative of $f(x) = 3x^2 - 2x$.
2. Find the derivative of each quadratic function.
 - (a) $y = ax^2 + bx + c$
 - (b) $y = 0.5x^2 - 10x$
 - (c) $y = (2 - x)^2$