

Calculus 1 Tangent Lines and Areas

Average and Instantaneous Velocity

Suppose a bowling ball is dropped from the top of a building that is 500 feet tall.

a) Approximate the velocity of the bowling ball after 3 seconds.

b) Can you guess the velocity of the ball at exactly 3 seconds?

Area

Approximate the area under the curve $y = x^2$ that lies above the x-axis between the lines $x = 0$ and $x = 1$.

