

Name:

Section 3.3 – Applications and Function Notation

Find the Slope (Rate of Change – Slope with Units) of the following scenarios

<p>I bought a used car (2 years old) for \$12 000, and I sold it 3 years later for \$5600. Considering a steady rate of change. What is the depreciation rate of the car per year?</p>	<p>My odometer read 112345km and I had a full tank of gas. When my tank was empty, 30L later, my odometer read 112847km. How far can I travel per litre?</p>
<p>Given the function: $f(x) = 3x + 5$. What is $f(3)$.</p>	<p>Given the function: $f(x) = 2x^2 + 5x - 4$ What is $f(-3)$.</p>
<p>Given the function: $f(x) = 3x^3 - 2x^2 + 4x - 5$ What is $f(k)$.</p>	<p>Given the function: $f(x) = 5x + 4$ What is $f(x + h) - f(x)$.</p>