



Average Rate of Change - Function and 2 Points to Slope Expression

<p>1 Write the expression for the average rate of change of this function between the two points.</p> $f(x) = \sin\left(\frac{\pi x}{4}\right)$ $f(2) = 1$ $f(0) = 0$	<p>A</p> $\frac{0 - 1}{2 - 0}$	<p>B</p> $\frac{0 - 1}{0 - 2}$	<p>C</p> $\frac{0 - 2}{0 - 1}$	<p>2 Write the expression for the average rate of change of this function between the two points.</p> $f(x) = \sin\left(\frac{\pi x}{4}\right)$ $f(-2) = -1$ $f(0) = 0$	<p>A</p> $\frac{0 - (-1)}{(-2) - 0}$	<p>B</p> $\frac{0 - (-2)}{0 - (-1)}$	<p>C</p> $\frac{(-1) - 0}{0 - (-2)}$
<p>3 Write the expression for the average rate of change of this function between the two points.</p> $f(x) = \frac{2}{x}$ $f(1) = 2$ $f(2) = 1$	<p>A</p> $\frac{1 - 2}{1 - 2}$	<p>B</p> $\frac{2 - 1}{2 - 1}$	<p>C</p> $\frac{1 - 2}{2 - 1}$	<p>4 Write the expression for the average rate of change of this function between the two points.</p> $f(x) = 2x^3$ $f(2) = 16$ $f(1) = 2$	<p>A</p> $\frac{16 - 2}{1 - 2}$	<p>B</p> $\frac{2 - 16}{2 - 1}$	<p>C</p> $\frac{2 - 16}{1 - 2}$
<p>5 Write the expression for the average rate of change of this function between the two points.</p> $f(x) = x^3$ $f(2) = 8$ $f(0) = 0$	<p>A</p> $\frac{0 - 2}{0 - 8}$	<p>B</p> $\frac{8 - 0}{0 - 2}$	<p>C</p> $\frac{0 - 8}{0 - 2}$	<p>6 Write the expression for the average rate of change of this function between the two points.</p> $f(x) = 2x - 1$ $f(-2) = -5$ $f(0) = -1$	<p>A</p> $\frac{(-1) - (-5)}{0 - (-2)}$	<p>B</p> $\frac{0 - (-2)}{(-1) - (-5)}$	<p>C</p> $\frac{(-5) - (-1)}{0 - (-2)}$
<p>7 Write the expression for the average rate of change of this function between the two points.</p> $f(x) = 3 \cos\left(\frac{\pi x}{4}\right)$ $f(0) = 3$ $f(-2) = 0$	<p>A</p> $\frac{3 - 0}{(-2) - 0}$	<p>B</p> $\frac{0 - 3}{(-2) - 0}$	<p>C</p> $\frac{0 - 3}{0 - (-2)}$	<p>8 Write the expression for the average rate of change of this function between the two points.</p> $f(x) = 2x - 3$ $f(-1) = -5$ $f(-3) = -9$	<p>A</p> $\frac{(-9) - (-5)}{(-3) - (-1)}$	<p>B</p> $\frac{(-5) - (-9)}{(-3) - (-1)}$	<p>C</p> $\frac{(-9) - (-5)}{(-1) - (-3)}$
				<p>D</p> $\frac{(-3) - (-1)}{(-9) - (-5)}$			