

Circuit Training
Unit 1 Review

Name: Key

Directions: Begin in cell #1. Show the work necessary to arrive at your answer. Search for your answer in one of the other cells and mark that cell #2, then work out the new problem. Proceed in this manner until you complete the circuit and arrive back at the first box. You do not need a calculator to complete this circuit.

#1 and #20 ✓ Find the average rate of change for the function $g(x) = -5 + 3(x - 1)$ on the interval $[-2, 0]$. Slope of linear function = avg. ROC	Answer: 76												
# 15 The approximate height of a rock, in meters, thrown upwards off a cliff, is $h(t) = -5t^2 + 10t + 100$ where t is time in seconds. What is the maximum height of the rock? $-5(t^2 - 2t - 20)$ $-5((t-1)^2 - 21)$ $-5(-21) = 105$	Answer: 200												
# 11 A linear function, $y = g(x)$, passes through the points $(-2, 7)$ and $(0, 5)$. Find the average rate of change of the function $y = g(x)$ on the interval $[1, 6]$. $\frac{-2}{2} = -1$ $\frac{+2}{-2}$ avg. ROC is constant!	Answer: 5												
# 2 The function f is quadratic. Selected values of f are shown in the table. Find the average rate of change of f on the interval $6 \leq x \leq 8$. <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">x</td> <td style="padding: 5px;">0</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">6</td> <td style="padding: 5px;">8</td> </tr> <tr> <td style="padding: 5px;">$f(x)$</td> <td style="padding: 5px;">-3</td> <td style="padding: 5px;">-3</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;">21</td> <td style="padding: 5px;">45</td> </tr> </table> $\frac{45 - 21}{8 - 6} = 12$	x	0	2	4	6	8	$f(x)$	-3	-3	5	21	45	Answer: 3
x	0	2	4	6	8								
$f(x)$	-3	-3	5	21	45								
# 7 The function f is quadratic. Select values of f are shown in the table. Solve $f(x) = 0$. The solutions are <u>$x = 3$</u> and <u>$x = -1$</u>. To advance in the circuit, find the sum of the solutions: <u>2</u>. <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">x</td> <td style="padding: 5px;">0</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">6</td> <td style="padding: 5px;">8</td> </tr> <tr> <td style="padding: 5px;">$f(x)$</td> <td style="padding: 5px;">-3</td> <td style="padding: 5px;">-3</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;">21</td> <td style="padding: 5px;">45</td> </tr> </table>	x	0	2	4	6	8	$f(x)$	-3	-3	5	21	45	Answer: 3.5
x	0	2	4	6	8								
$f(x)$	-3	-3	5	21	45								

Unit 7 Function Factors Key

RS Peters



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