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 #10 V

Answer: 76

Find the average rate of change for the function g(x) = -5 + 3x - 1 on the interval [-2,0].

Slope of linear function = avg. ROC

15

Answer: 200

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?

***** | | | |

+2

Answer: 5

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].

avg. ROC is constant!

2

Answer: 3

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 $6 \le x \le 8$.

X	0	2	4	6	8
f(x)	-3	-3	5	21	45

#_7_

Answer: 3.5

The function f is quadratic. Select values of f are shown in the table. Solve f(x) = 0. The solutions are x = 3 and x = -1. To advance in the circuit, find the sum of the solutions: 2.

×	0	2	4	- 6	8
f(x)	-3	-3	5	21	45

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