







Objective: Find the average rate of change of quadratic functions given context.

## Closure

A toy rocket is thrown straight up. Its height after 1 second is 10 feet. If the rocket's average speed from 1 second to 3 seconds is 4 feet per second. What is the height of the rocket after 3 seconds?

Time	Height
1 sec	10 <i>ft</i>
2 sec	10 + 4 = 14 ft
3 sec	14 + 4 = 18 ft

The height of the rocket after 3 seconds is 18 feet.