Chapter 2 Review Extra Practice Answers
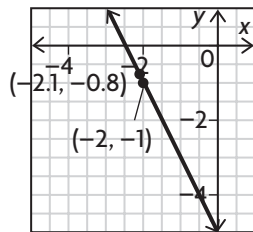
1. **a)** 22 m/s
    b) 17 m/s
    c) 12 m/s
    d) The average rate of change in height is decreasing. The average rates calculated in parts a), b), and c) are decreasing as time increases.

2. **a)** 16
    b) 4
    c) -14
    d) -26

3. **a)** The secant line passing through $(-2.1, -0.16)$ and $(-2, -1)$ has a slope of -8.4.
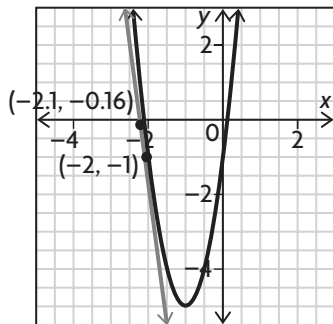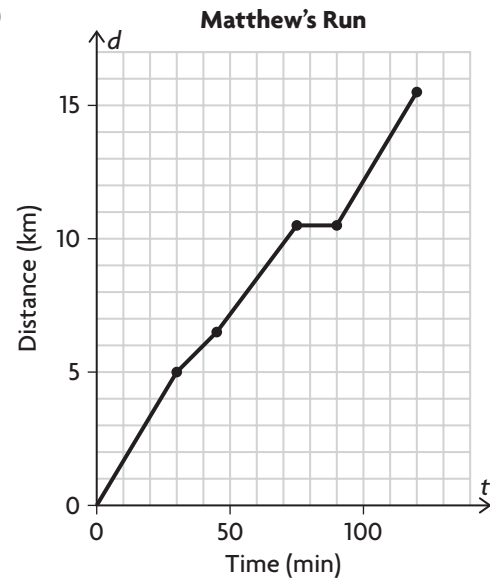

b) The secant line passing through $(-2.1, -0.9659)$ and $(-2, -0.96)$ has a slope of 0.059.
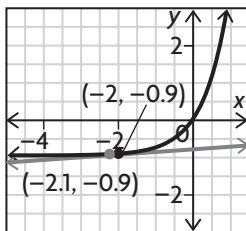
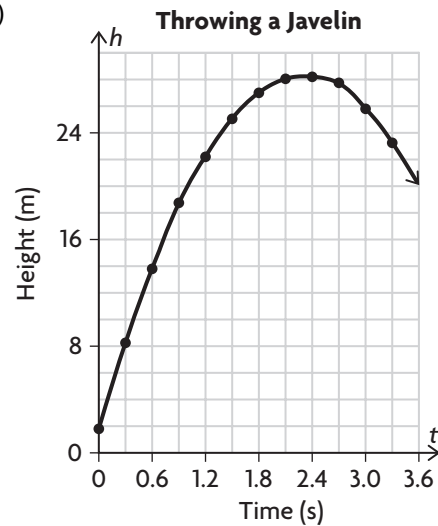**c)** The secant line passing through $(-2.1, -0.8)$ and $(-2, -1)$ has a slope of -2.

4. **a)**

Matthew's Run

b) 7.75 km/h
c) 8.0 km/h
d) 8.0 km/h

5. **a)**

Throwing a Javelin

b) 0 m/s