

F.IF.B.6: Rate of Change 5**Answer Section**

1 ANS:

$$\frac{13.9 - 9.4}{4 - 1} = 1.5 \text{ The average rate of change in the number of hours of daylight from January 1-April 1 is 1.5.}$$

REF: 061925aaii

2 ANS: 3

$$\frac{f(7) - f(-7)}{7 - (-7)} = \frac{2^{-0.25(7)} \cdot \sin\left(\frac{\pi}{2}(7)\right) - 2^{-0.25(-7)} \cdot \sin\left(\frac{\pi}{2}(-7)\right)}{14} \approx -0.26$$

REF: 061721aaii

3 ANS:

$$\frac{B(11) - B(8)}{11 - 8} \approx -10.1 \text{ The average monthly high temperature decreases } 10.1^\circ \text{ each month from August to November.}$$

REF: 011930aaii

4 ANS:

$$\frac{B(10) - B(6)}{10 - 6} \approx -3.88. \text{ The average monthly high temperature decreases about } 4^\circ \text{ each month from June and October.}$$

REF: 012336aaii