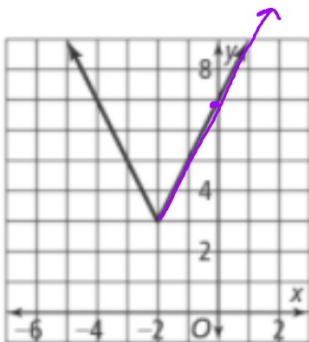


2.

Domain: $(-\infty, \infty)$ Range: $[3, \infty)$

x-intercepts: None

y-intercepts: $(0, 7)$ Interval positive: $f(x) > 0$ $(-\infty, \infty)$ Interval negative: $f(x) < 0$ NoneInterval increasing: $(-2, \infty)$ Interval decreasing: $(-\infty, -2)$ Average rate of change over $[-2, 0]$: $x = -2$ to $x = 0$ $(-2, 3)$ $(0, 7)$

$$ARC = \frac{7-3}{0-(-2)} = \frac{4}{2} = 2$$