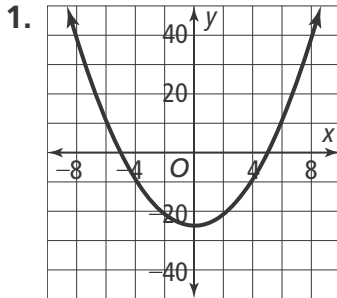# 1-1 Additional Practice

Key Features of Functions

For Items 1–2, identify the following information for the function of each graph:

1.

Domain:
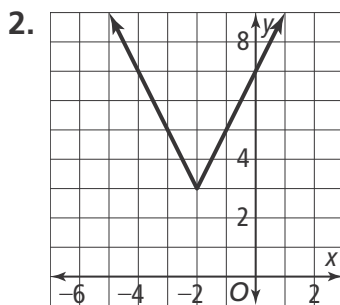
Range:

x-intercepts:

y-intercepts:

Interval positive:

Interval negative:

Interval increasing:

Interval decreasing:

Average rate of change over $[-5, 0]$:

2.

Domain:

Range:

x-intercepts:

y-intercepts:

Interval positive:

Interval negative:

Interval increasing:

Interval decreasing:

Average rate of change over $[-2, 0]$:

3. Sketch a linear graph given the following key features:
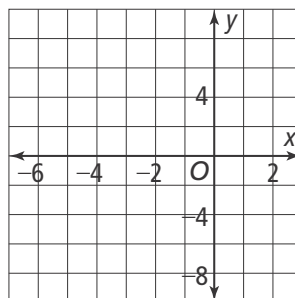
Domain: $(-\infty, \infty)$

Range: $(-\infty, \infty)$

Increasing: $(-\infty, \infty)$

x-intercepts: -2.5

y-intercept: 10

Positive: $(-2.5, \infty)$

Negative: $(-\infty, -2.5)$

4. Chiang is filling a 50 ft³ container with water at a rate of 0.5 ft³/min. Interpret the key features for this situation.