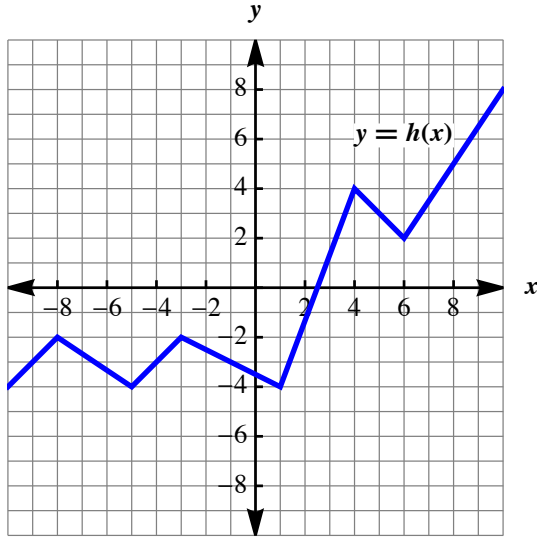


Functions (Part 3): Interpreting Functions

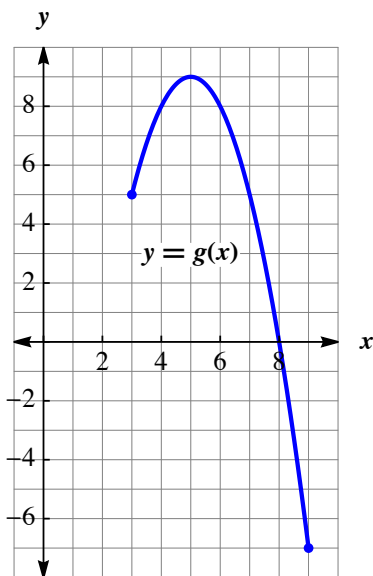
Section 1: Relative maxima and minima (KA link)

1. For the following graph, write the ordered pairs for all the
 - a. Local minima: $(-5, -4)$, $(1, -4)$, $(6, 2)$
 - b. Local maxima: $(-8, -2)$, $(-3, -2)$, $(4, 4)$



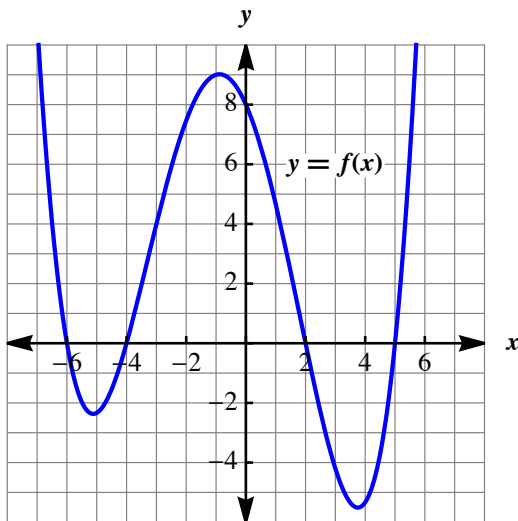
Section 2: Absolute maxima and minima (KA link)

1. For the following graph, write the ordered pair for the
 - a. Absolute minima: $(9, -7)$
 - b. Absolute maxima: $(5, 9)$



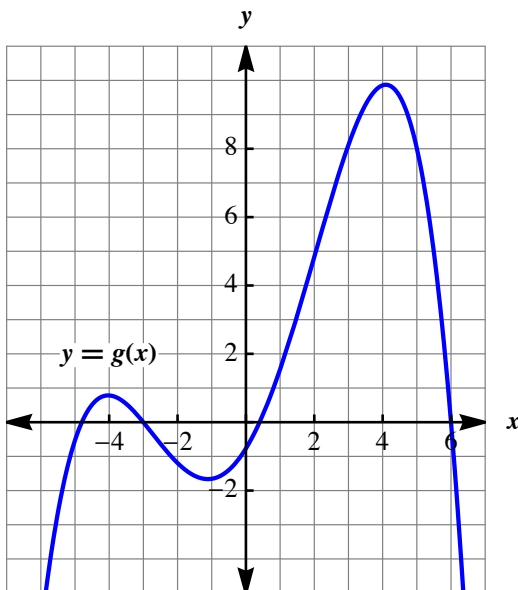
Section 3: Positive and negative intervals (KA link)

- Using interval notation, write the intervals where f is
 - Positive: $(-\infty, -6) \cup (-4, 2) \cup (5, \infty)$
 - Negative: $(-6, -4) \cup (2, 5)$



Section 4: Increasing and decreasing intervals (KA link)

- Using interval notation, write the intervals where g is
 - Increasing: $(-\infty, -4) \cup (-1, 4.2)$
 - Decreasing: $(-4, -1) \cup (4.2, \infty)$



- [Challenge] Is it possible for a graph of a function to only be increasing in Quadrant III and only be decreasing in Quadrant II? Defend your answer graphically.