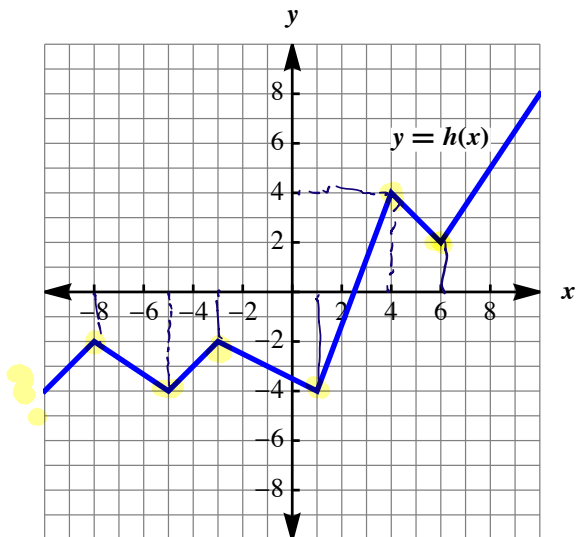


Functions (Part 3): Interpreting Functions

Section 1: Relative maxima and minima (KA link)

1. For the following graph, write the ordered pairs for all the

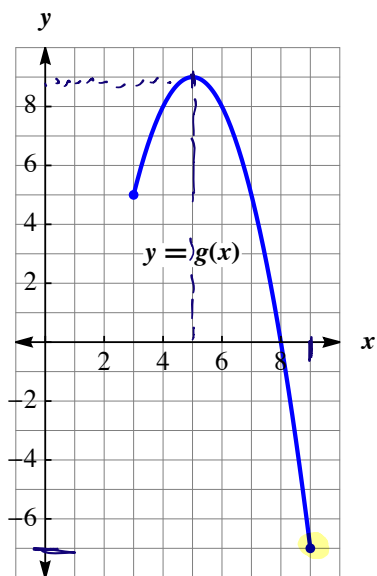
- Local minima: $(-5, -4)$, $(1, -4)$, $(6, 2)$
- Local maxima: $(-8, -2)$, $(-3, -2)$, $(4, 4)$



Section 2: Absolute maxima and minima (KA link)

1. For the following graph, write the ordered pair for the

- Absolute minima: $(9, -7)$
- Absolute maxima: $(5, 9)$

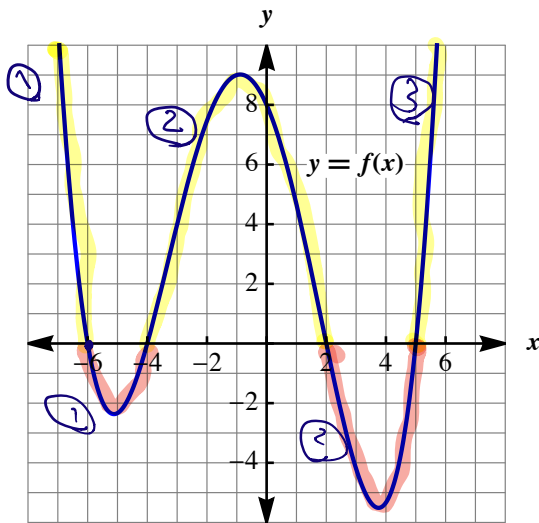


Section 3: Positive and negative intervals (KA link)

1. Using interval notation, write the intervals where f is

a. Positive: $(-\infty, -6) \cup (-4, 2) \cup (5, \infty)$

b. Negative: $(-6, -4) \cup (2, 5)$

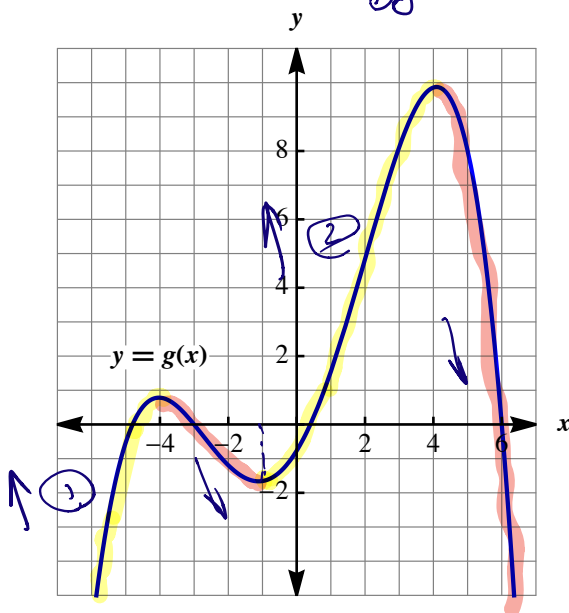


Section 4: Increasing and decreasing intervals (KA link)

1. Using interval notation, write the intervals where g is

a. Increasing: $(-\infty, -4) \cup (-1, 4.2)$

b. Decreasing: $(-4, -1) \cup (4.2, 5)$



2. [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.

