

Functions (Part 3): Interpreting Functions

First & Last Name: _____ Class: _____

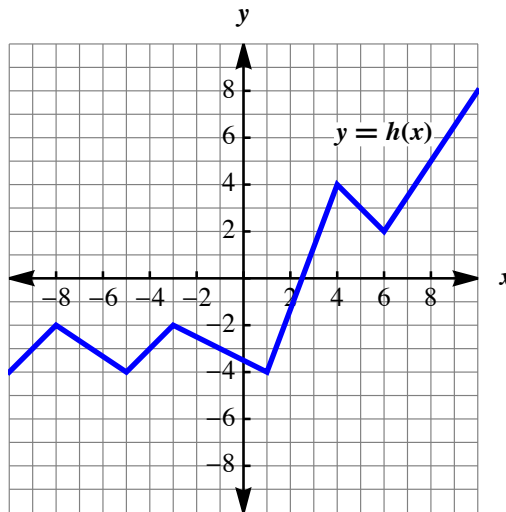
If you did not get full points on the *Functions* section of the “Pre-Review” test, attempt all of the (non-challenge) questions on this handout. Check your answers using the answer key. If you did not get a correct answer, use Khan Academy to review and master the topic.

Honor Students: you are expected to master the challenge questions.

Section 1: Relative maxima and minima (KA link)

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

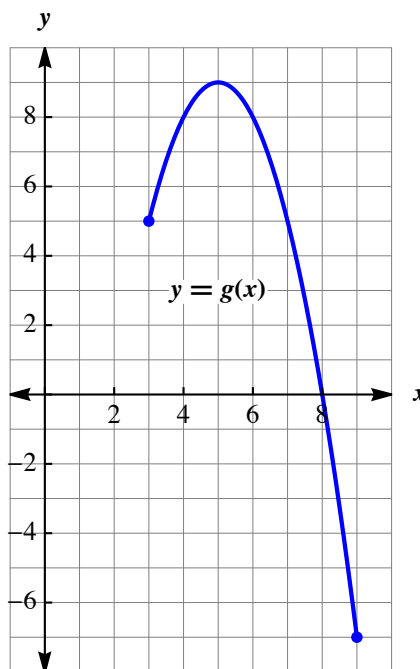
- a. Local minima.
- b. Local maxima.



Section 2: Absolute maxima and minima (KA link)

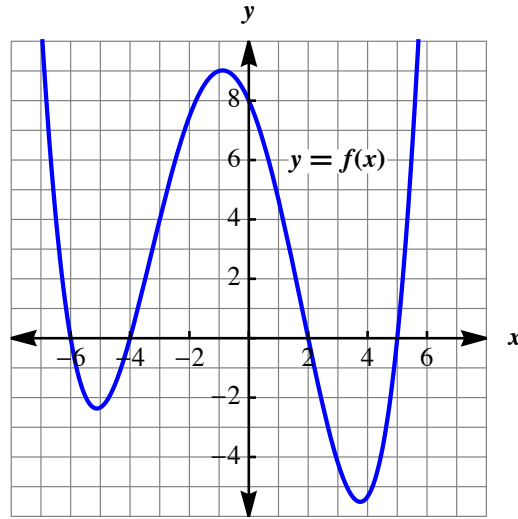
1. For the following graph, write the ordered pair for the

- a. Absolute minima.
- b. Absolute maxima.



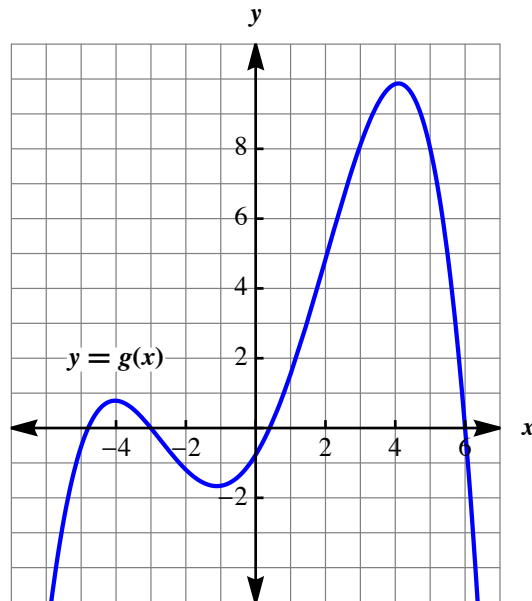
Section 3: Positive and negative intervals (KA link)

- Using interval notation, write the intervals where f is
 - Positive.
 - Negative.



Section 4: Increasing and decreasing intervals (KA link)

- Using interval notation, write the intervals where g is
 - Increasing.
 - Decreasing.



- [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.