

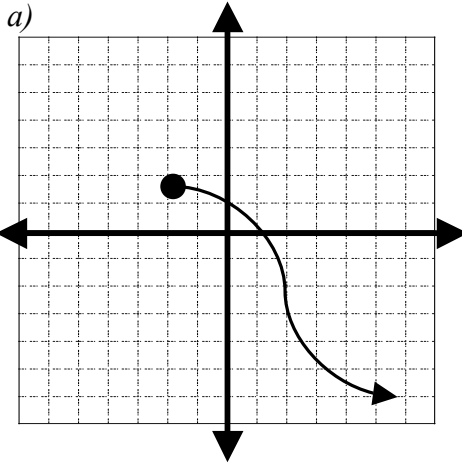
HOMWORK: KEY FEATURES OF FUNCTIONS



DAY 4

NAME: _____

1) State the domain and range for each of the following graphs. Then, state the intervals where the function is increasing and where the function is decreasing.

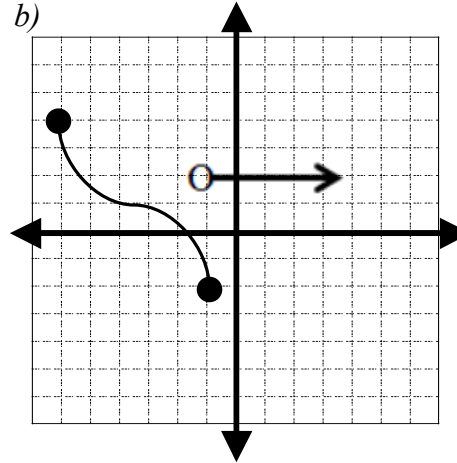


D: _____

R: _____

Inc: _____

Dec: _____



D: _____

R: _____

Inc: _____

Dec: _____

2. Domain: _____

Range: _____

Increasing: _____

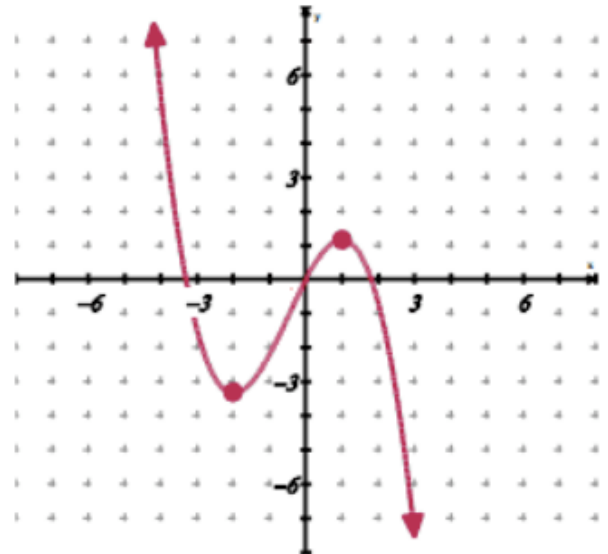
Decreasing: _____

Relative Max: _____

Relative Min: _____

Absolute Max: _____

Absolute Min: _____



3. Domain: _____

Range: _____

Increasing: _____

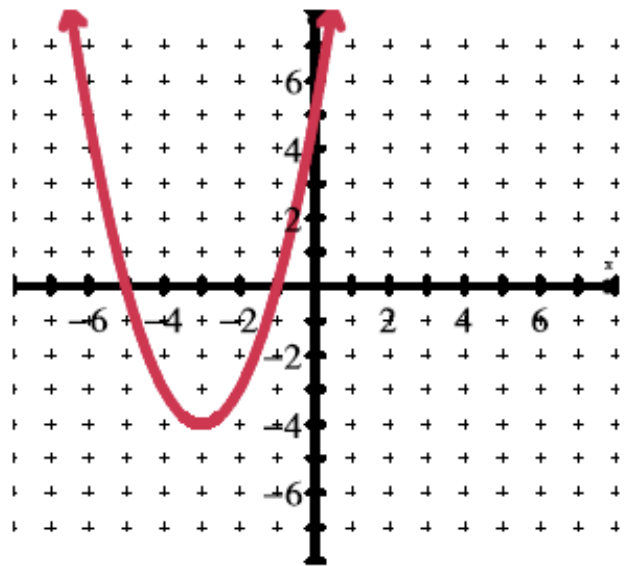
Decreasing: _____

Relative Max: _____

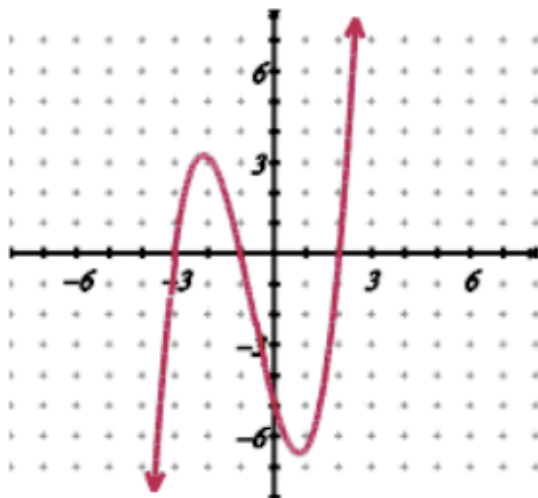
Relative Min: _____

Absolute Max: _____

Absolute Min: _____



4. Where is the function increasing?



A. $(-\infty, -2) \cup (1, \infty)$

B. $(-\infty, 3) \cup (-6, \infty)$

C. $(-2, 1)$

D. $(-6, 3)$

a. Determine the number of real zeros for the polynomial _____

b. Determine the number of turning points _____

c. Where does the graph have relative minimums or maximums? _____

d. Where does the graph have absolute minimums or maximums? _____