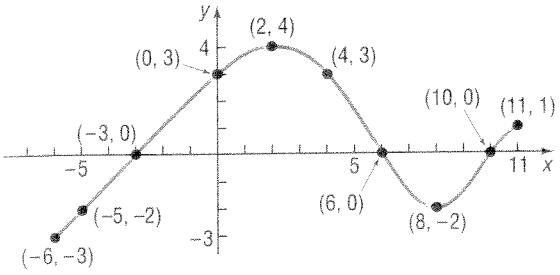
Pre Calculus
Wksht

Name _____
Block _____

Using the graph of the function f to answer the following questions.



function f

a) State the domain: [-6, 11] x's [ ] ● included ( ) ○

b) State the range: [-3, 4] y's low high

c) List the y-intercept(s) (0, 3)

d) List the x-intercept(s) (-3, 0) (6, 0) (10, 0)

e) Find $f(4)$ 3 x

f) For what values of x does $f(x) = -2$?
-5 and 8 y's

g) For what values of x is $f(x) \geq 0$? Above or equal 0
Give your answer in interval notation.
[-3, 6] ∪ [10, 11]

h) Over what interval(s) is f decreasing?
(2, 8)

i) Over what interval(s) is f increasing?
(-6, 2) ∪ (8, 11)

x-coord. ONLY

j) List the local maximum(s).
When x = 2, the local MAX is 4.

k) List the local minimum(s).
When x = 8, the local MIN is -2.