

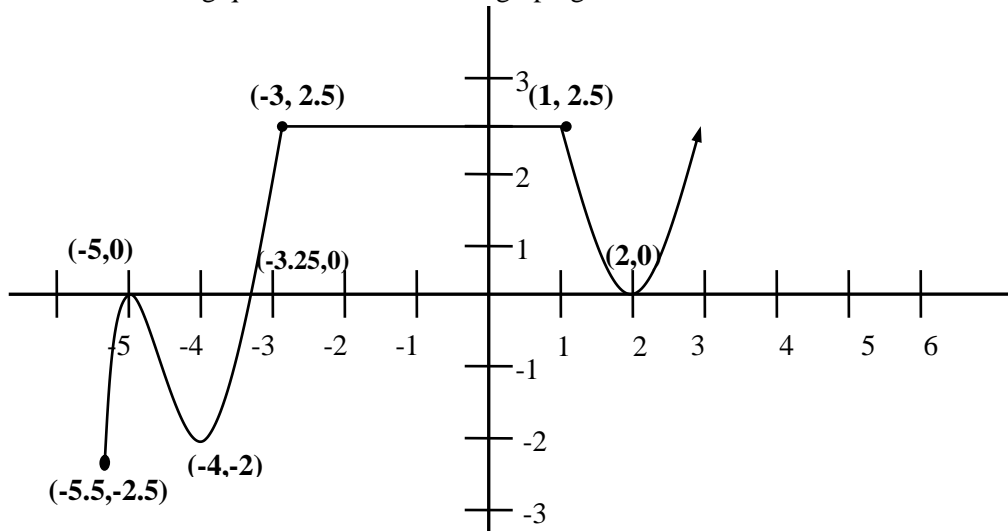
Name _____

Date _____

Hour _____

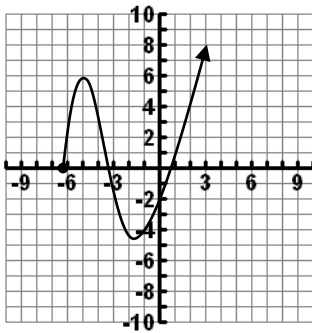
2.3 Functions

Answer the following questions based on the graph given.



1. Is f increasing over the interval $(-4, -3)$?
2. Is f increasing over the interval $(1, 2)$?
3. Is f only increasing over the interval $(-5, -4)$?
4. Is f decreasing over the interval $(-5, -4)$?
5. Is f decreasing over the interval $(-3, 1)$?
6. Is f decreasing over the interval $(1, 2)$?
7. List the interval(s) over which f is increasing.
8. List the interval(s) over which f is decreasing.
9. List the interval(s) over which f is constant.
10. What is the y-intercept?
11. What are the x-intercept(s)?
12. Is there a local maximum at $x = -3$?
13. Is there a local minimum at $x = -4$?
14. List all of the graph's minimum(s).
13. List all of the graph's maximum(s).
14. What is $f(-5)$?
15. What is $f(1)$?
16. What is $f(x) = -2.5$?
17. What is $f(x) = 0$?
18. What is the domain of f ?
19. What is the range of f ?

20.



a. x-intercepts:

b. y-intercept:

c. Domain:

d. Range:

e. Increasing:

f. Decreasing:

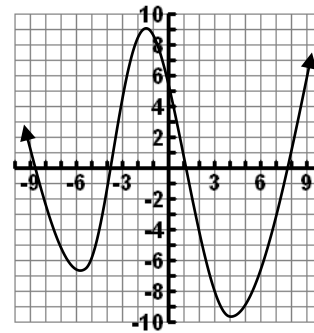
g. Constant:

h. Even, Odd, Neither:

i. Maximum:

j. Minimum:

21.



a. x-intercepts:

b. y-intercepts:

c. Domain:

d. Range:

e. Increasing:

f. Decreasing:

g. Constant:

h. Even, Odd, Neither:

i. Maximum:

j. Minimum: