

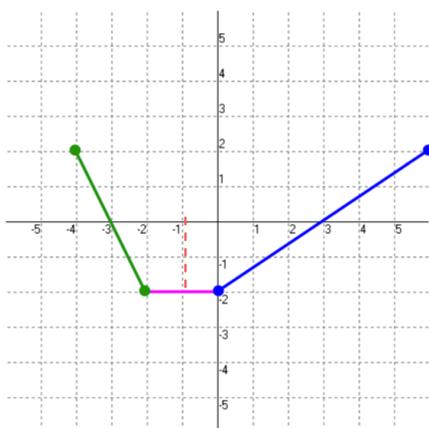
Test :Analyzing Functions

- Review the homework on Analyzing Functions.
- More solved examples are available on Cinemath portal.
- Below are the answers to the Homework Questions.

Analyzing Functions

Name: _____

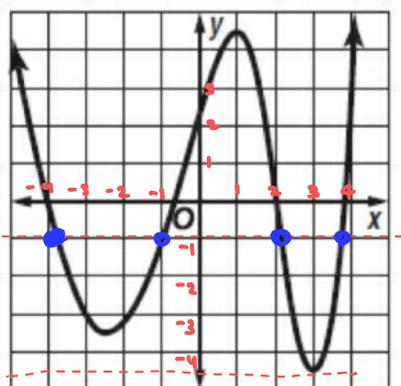
Questions # 1



1. Domain $[-4, 6]$
2. Range: $[-2, 2]$
3. The interval in which the graph is increasing $(0, 6)$
4. The interval in which the graph is decreasing $(-4, -2)$
5. The interval in which the graph is positive $(-4, -2) \cup (3, 6)$
6. The interval in which the graph is negative $(-3, 3)$
7. $f(-1) = -2$
8. $f(-4) = 2$
- 10) Value(s) of x which $f(x) = 2$ -4 and 6

9. ~~$f(-1)$~~

Questions # 2



11. Domain $(-\infty, \infty)$
12. Range: $[-4.5, \infty)$
13. The interval in which the graph is increasing $(-2.5, 1) \cup (3, \infty)$
14. The interval in which the graph is decreasing $(-\infty, -2.5) \cup (1, 3)$
15. The interval in which the graph is positive $(-\infty, -4) \cup (-3/4, 2) \cup (4, \infty)$
16. The interval in which the graph is negative $(-4, -3/4) \cup (2, 4)$
17. $f(-1) = -1$
18. $f(-4) = 0$

19. Value(s) of x which $f(x) = -1$

$x = -3.9, x = -1, x = 2.1, x = 3.9$

20. Describe the End Behavior

as $x \rightarrow +\infty, f(x) \rightarrow +\infty$
 as $x \rightarrow -\infty, f(x) \rightarrow +\infty$