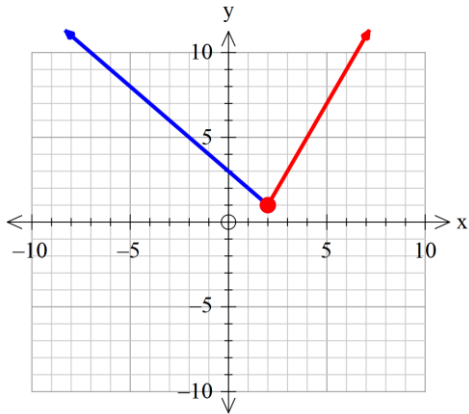


## Pre-Calculus Chapter 1 Review Answers

1. Not a function because  $x=4$  answer is not unique
2.  $-\frac{4}{5}$
3.  $\{x|x \neq -8,0,8\}$
4.  $(-\infty, \infty)$
5.  $-11x + 7$  ; Domain: All reals
6.  $-6x^2+x+7$
7.  $\{x|x \geq 0 \text{ and } x \neq \frac{5}{6}\}$
8. Positive
9. -60,70,100
10. Odd
11. Neither
12. Even
13. Increasing
14. Decreasing
15. Maximum is 5 at  $x = -8$  and 3.9 at  $x = 2.2$
- 16.



17.  $y = |x + 9|$
18.  $y = \sqrt{x - 7}$
19.  $y = x^2 + 9$
20.  $y = \sqrt{x} - 7$
21.  $y = -(3|x - 3| - 2)$  or  $y = -3|x - 3| + 2$