

Lesson #8 E-2: Understanding and Graphing Basic Functions and Domain and Range of a Function-Review
 (Reference: Lesson #25, #30, #115 & #119 in book)

Problem

1. Please graph each of the following functions $f(x)$. Once graphed determine the domain and range of each of the functions.

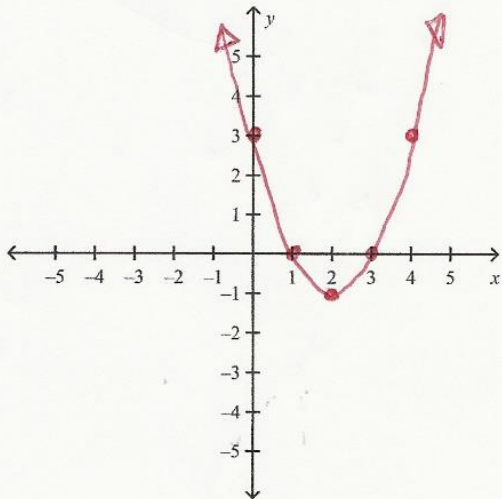
1. $f(x) = x^3 - 1$

2. $f(x) = -2x^2 + 2$

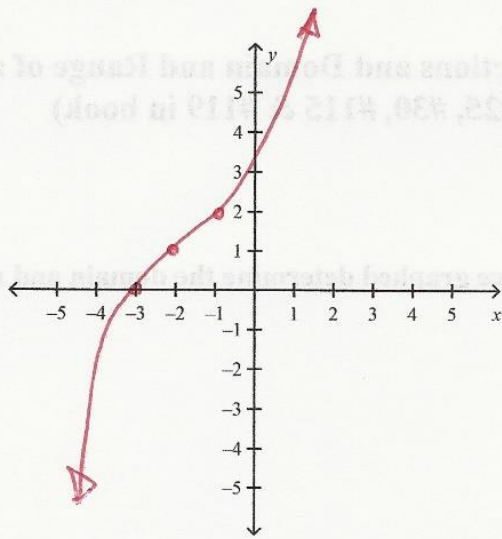
3. $f(x) = \sqrt{x} - 2$

4. $f(x) = |x| + 2$

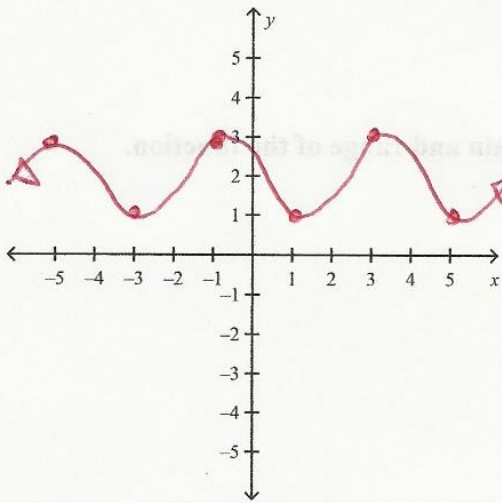
5. For each of the following graphs, please state the domain and range of the function.



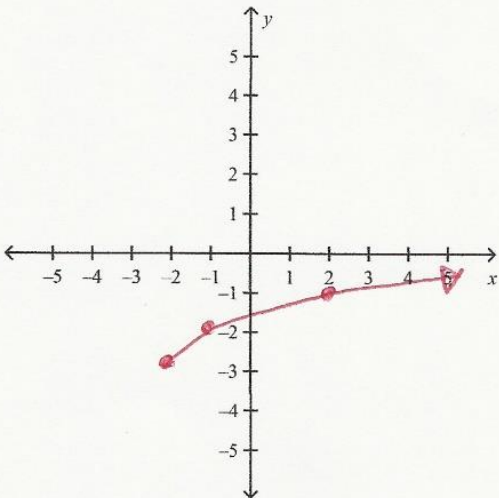
5.



6.



7.



8.

1. Please graph each of the following functions $f(x)$. One graph of the function $f(x)$ is shown for each of the functions.

1. $f(x) = x^2 - 1$

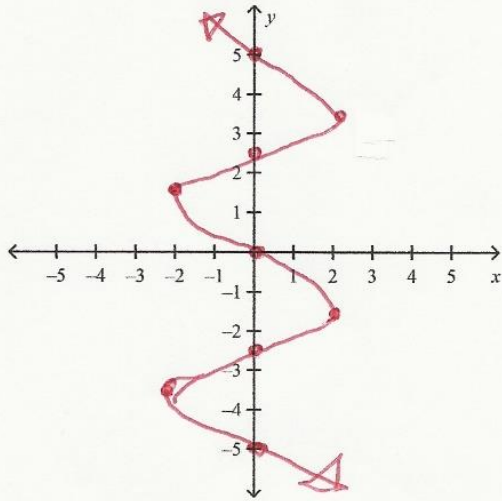
2. $f(x) = -2x^2 + 2$

3. $f(x) = \sqrt{x} - 2$

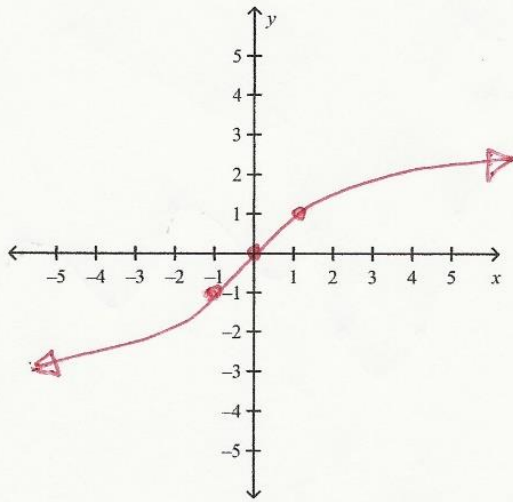
4. $f(x) = |x| + 2$



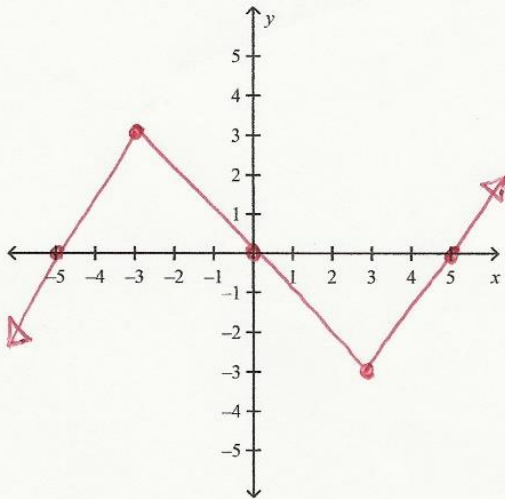
9. For each of the following graphs state whether it is a function or not a function and give an explanation to why you arrived at that answer.



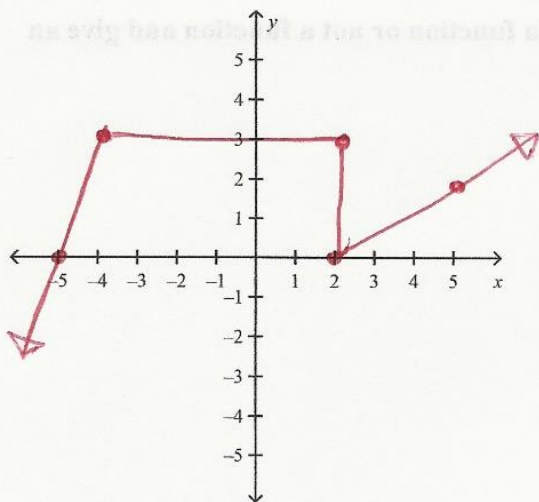
9.



10.



11.



12.

9. For each of the following graphs state whether it is a function or not a function and give an explanation to why you arrived at that answer.

