

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

Problem

1. Please graph each of the following functions $f(x)$.

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

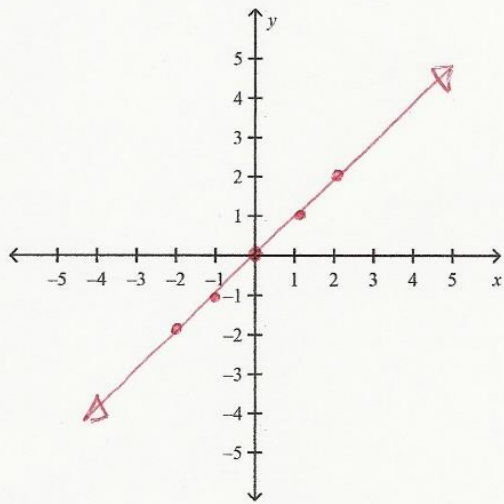
2. $f(x) = 2x^2 - 2$

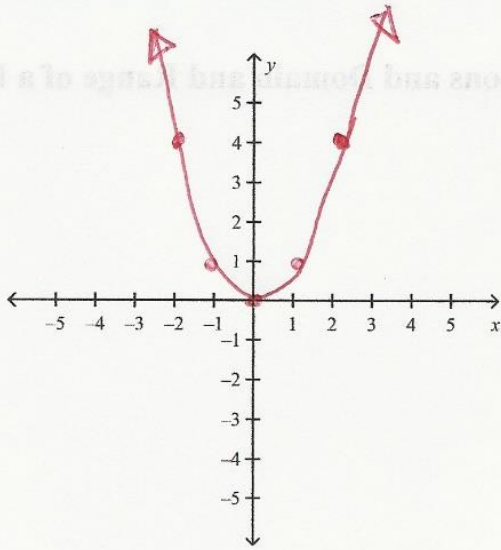
3. $f(x) = x^3$

4. $f(x) = \sqrt{x}$

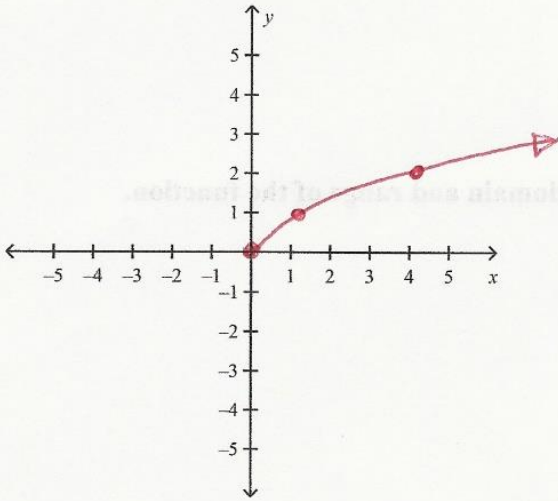
5. $f(x) = |x|$

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

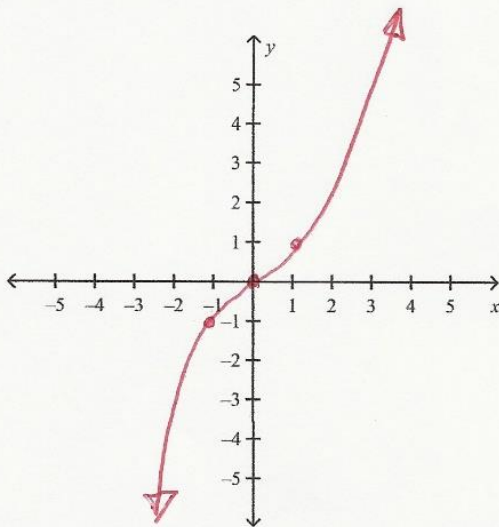




7.



8.



9.

1. Please graph each of the following functions $f(x)$.

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

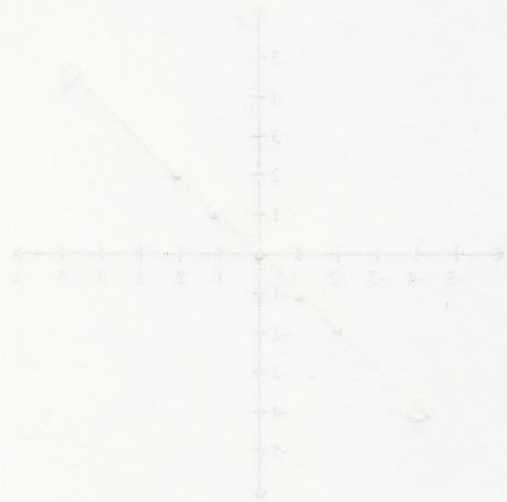
2. $f(x) = 2x^2 - 2$

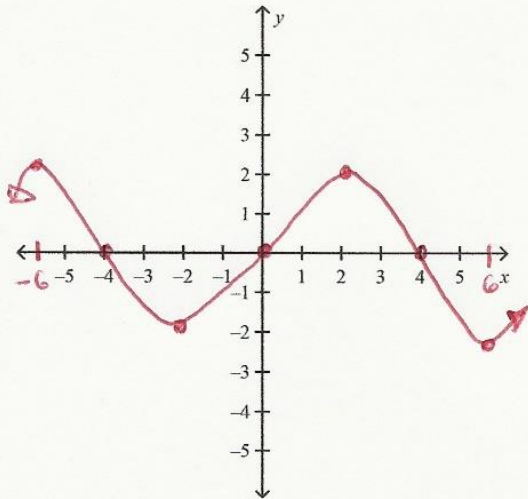
3. $f(x) = x^3$

4. $f(x) = \sqrt{x}$

5. $f(x) = |x|$

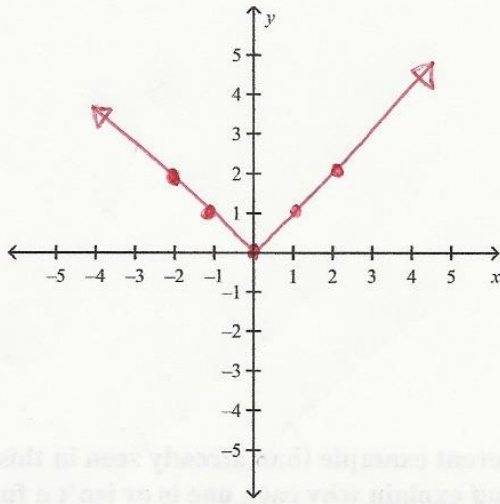
6. For each of the following graphs, please state the domain and range of the function.



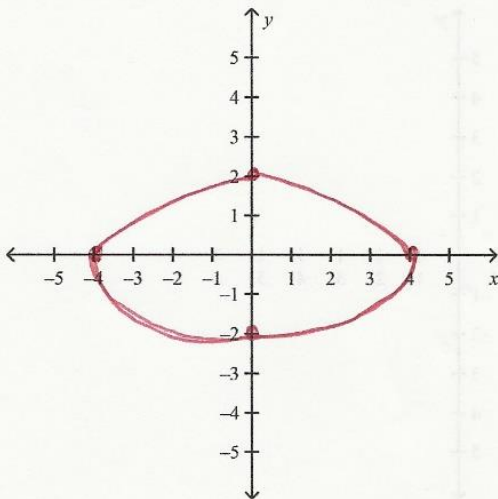


10.

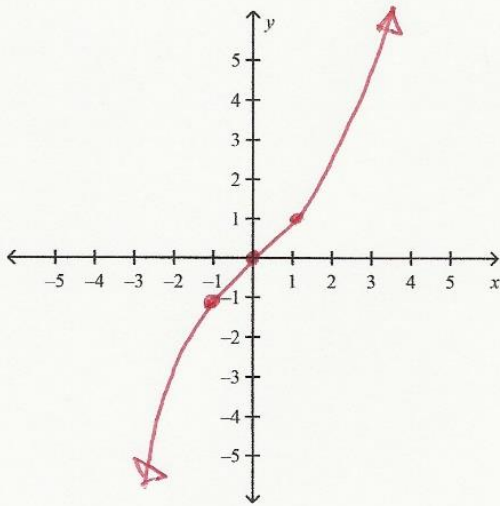
11. For each of the following graphs state whether it is a function or not a function and give an explanation to why you arrived at that answer.



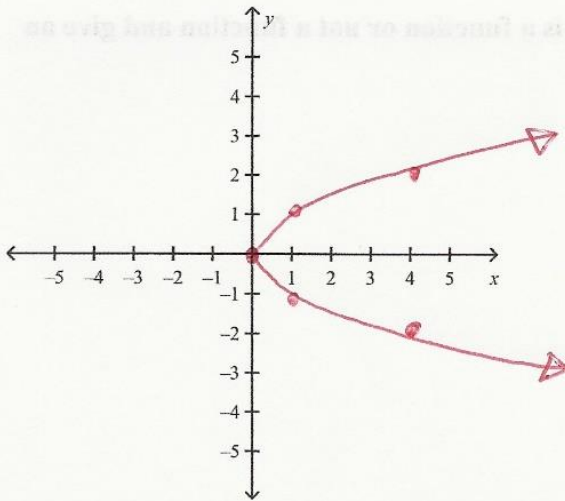
11.



12.



13.



14.

15. For the following questions please give me a different example than already seen in this assignment, of a graph that is a function and is not a function and explain why each one is or isn't a function.

