Written Homework Section 2.4

(Page 101: #38, 42)

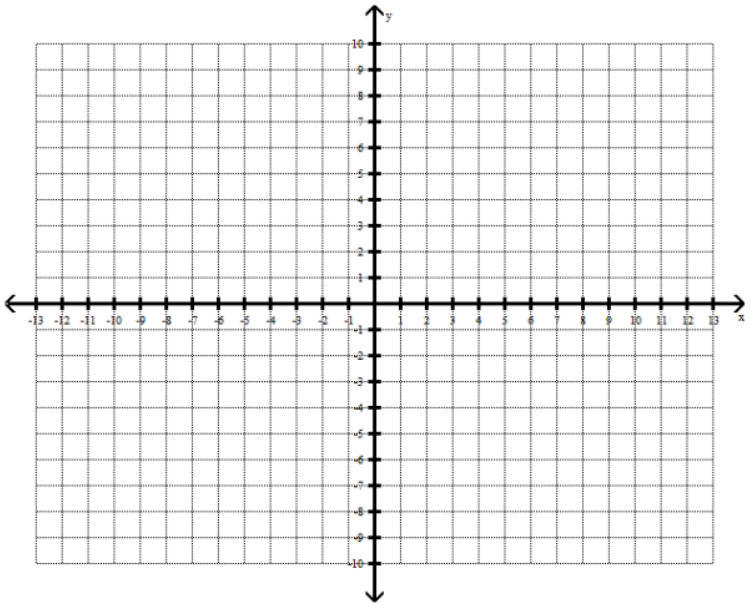
Name: _____

Due: _____

Given the function:

(a) *Find the domain of the function.* (b) *Locate any intercepts.* (c) *Graph the function.*
(d) *Based on the graph, find the range.* (e) *Is f continuous on the domain?*

38. $f(x)=\begin{cases} 2-x & \text{if } -3\le x<1 \\ \sqrt{x} & \text{if } x>1 \end{cases}$



Domain: _____

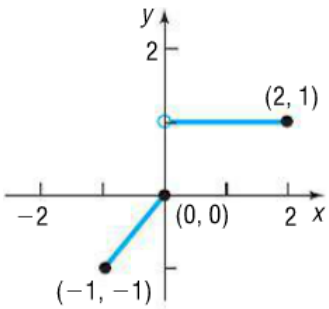
Intercepts: _____

Range: _____

Continuous? YES or NO

The graph of a piecewise-defined function is given. Write a definition for each function.

42.



Answer: $f(x)=\begin{cases} \\ \end{cases}$