

### 6.8

### Practice

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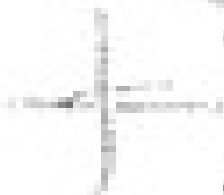
Graph each function.

1.  $f(x) = \begin{cases} x^2 + 2 & x < 0 \\ x^2 & x \geq 0 \end{cases}$

2.  $f(x) = \begin{cases} x^2 & x < 0 \\ x^2 + 2 & x \geq 0 \end{cases}$

3.  $f(x) = \begin{cases} x^2 + 2 & x < 0 \\ x^2 & x \geq 0 \end{cases}$

4.  $f(x) = \begin{cases} x^2 & x < 0 \\ x^2 + 2 & x \geq 0 \end{cases}$

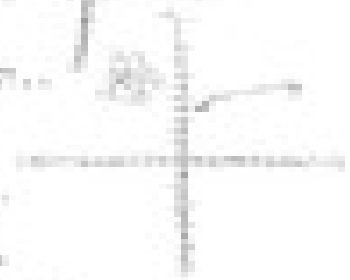


5.  $f(x) = \begin{cases} x^2 + 2 & x < 0 \\ x^2 & x \geq 0 \end{cases}$

6.  $f(x) = \begin{cases} x^2 & x < 0 \\ x^2 + 2 & x \geq 0 \end{cases}$

7.  $f(x) = \begin{cases} x^2 + 2 & x < 0 \\ x^2 & x \geq 0 \end{cases}$

8.  $f(x) = \begin{cases} x^2 & x < 0 \\ x^2 + 2 & x \geq 0 \end{cases}$



9. Sketch the graph of each function. Be sure to label the axes. Indicate the domain of each function.

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

2.  $f(x) = \sqrt{x+1}$

3.  $f(x) = \sqrt{x-1}$

10. If you have the graph of a function, you can determine if it is a function by using the

vertical line test.

11. If you have the graph of a function, you can determine if it is a function by using the

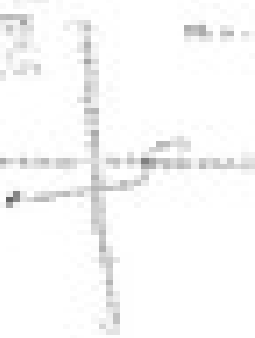
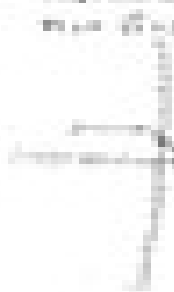
horizontal line test.

Graph each function.

1.  $f(x) = \begin{cases} x^2 + 2 & x < 0 \\ x^2 & x \geq 0 \end{cases}$

2.  $f(x) = \begin{cases} x^2 & x < 0 \\ x^2 + 2 & x \geq 0 \end{cases}$

3.  $f(x) = \begin{cases} x^2 + 2 & x < 0 \\ x^2 & x \geq 0 \end{cases}$



12. If you have the graph of a function, you can determine if it is a function by using the vertical line test.