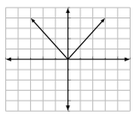
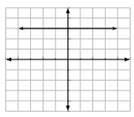
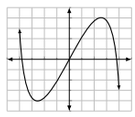
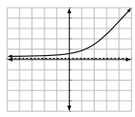
Lesson 2.4.1: Domain and Range of Functions

- **Domain**: the set of all permissible values of x that give real values for y
- **Range**: the set of permissible values for y or $f(x)$ that give the values of x real numbers
- **Asymptote**: a line that the graph of a function approaches but never intersects

Practice Exercises 2.4.1

A. Determine the domain and the range of each graph.

1. 
2. 
3. 
4. 

B. Find the domain of each function.

1. $g(x) = 5x + 1$
2. $g(x) = \sqrt{x}$
3. $g(x) = \dfrac{x+4}{x-2}$
4. $g(x) = \sqrt{x-8}$
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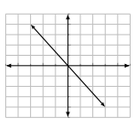
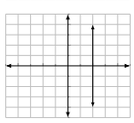
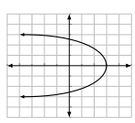
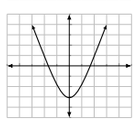
1. 
2. 
3. 
4. 

B. Find the domain of each function.

1. $g(x) = x - 7$
2. $g(x) = \sqrt{x+1}$
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Practice Exercises 2.4.1

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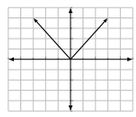
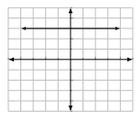
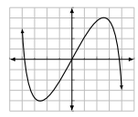
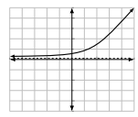
1. 
2. 
3. 
4. 

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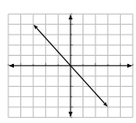
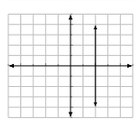
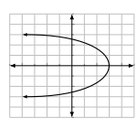
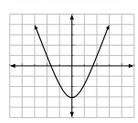
1. 
2. 
3. 
4. 

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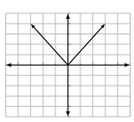
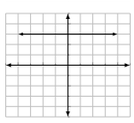
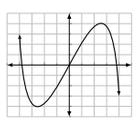
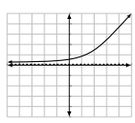
1. 
2. 
3. 
4. 

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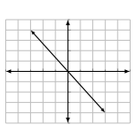
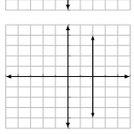
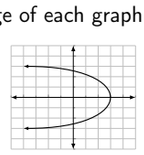
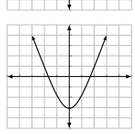
1. 
2. 
3. 
4. 

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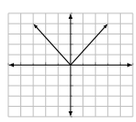
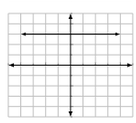
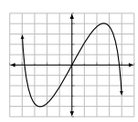
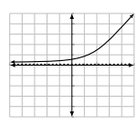
1. 
2. 
3. 
4. 

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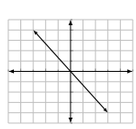
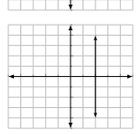
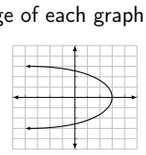
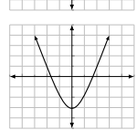
1. 
2. 
3. 
4. 

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