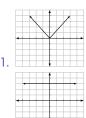
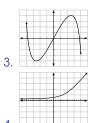
### Lesson 2.4.2: Domain and Range of Functions

- **Domain**: the set of all permissible values of x that give real values for v
- **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 2.4.2**

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





B. Find the domain of each function.

1. 
$$g(x) = 5x + 1$$

4. 
$$g(x) = \sqrt{x-8}$$

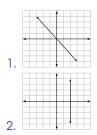
2. 
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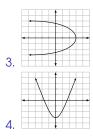
3 
$$q(x) = \frac{x+4}{1}$$

5. 
$$g(x) = \frac{3x}{x+6}$$

# Activity 2.4.2

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





B. Find the domain of each function.

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

4. 
$$g(x) = \sqrt{2x-4}$$

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

3. 
$$g(x) = \frac{3x+4}{x-1}$$

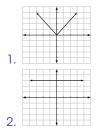
5. 
$$g(x) = \frac{x+4}{3x-5}$$

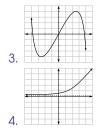
# Lesson 2.4.2: Domain and Range of Functions

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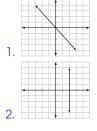
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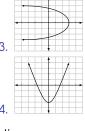
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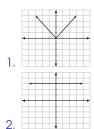
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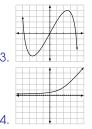
Lesson 2.4.2: Domain and Range of Functions

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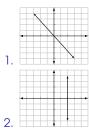
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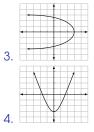
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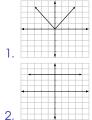
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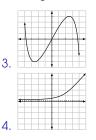
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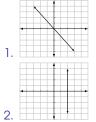
2. 
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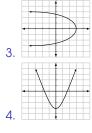
2. 
$$g(x) = \sqrt{x}$$
  
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5. 
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