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# **Functions - Day 1**

## **Domain & Range**

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Domain: input or x-values

Range: output or y-values

Input (days)	Output (\$)
1	15
2	20
4	30
6	40
9	55
11	65

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Identify the domain & range.

In	Out
5	7
2	4
3	5
7	9

Input	Output
13	17
20	24
22	26
41	45
42	46

Identify the domain & range.

In	Out
5	7
2	4
3	5
7	9

Domain: 5, 2, 3, 7  
Range: 7, 4, 5, 9

Input	Output
13	17
20	24
22	26
41	45
42	46

Domain: 13, 20, 22, 41, 42  
Range: 17, 24, 26, 45, 46

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Identify the domain & range.

$$\{(-2,1), (-2,3), (0,-3), (1,4), (3,1)\}$$

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Identify the domain & range.

$$\{(-2,1), (-2,3), (0,-3), (1,4), (3,1)\}$$

Domain: 5, 2, 3, 7

Range: 7, 4, 5, 9

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Identify the domain & range.

$\{(2, -9), (1, -4), (-8, -8), (-4, 4)\}$

$\{(-5, 7), (2, 12), (0, 8), (-3, 6)\}$

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Identify the domain & range.

$\{(2, -9), (1, -4), (-8, -8), (-4, 4)\}$

Domain: 2, 1, -8, -4

Range: -9, -4, -8, 4

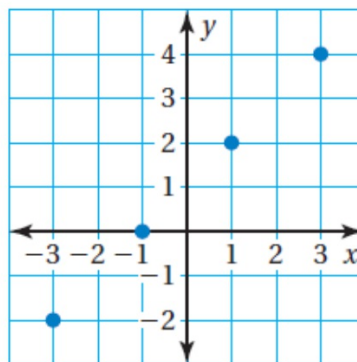
$\{(-5, 7), (2, 12), (0, 8), (-3, 6)\}$

Domain: -5, 2, 0, -3

Range: 7, 12, 8, 6

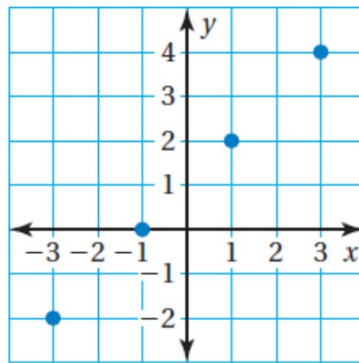


Identify the domain & range.

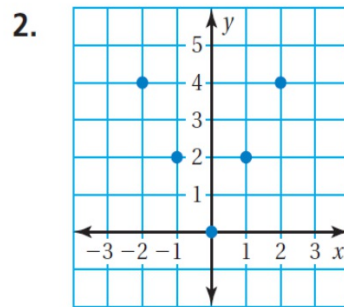
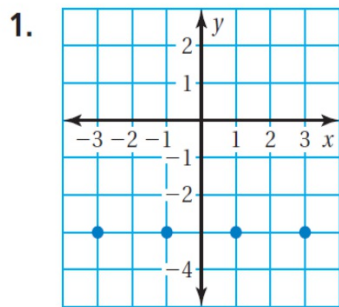


Identify the domain & range.

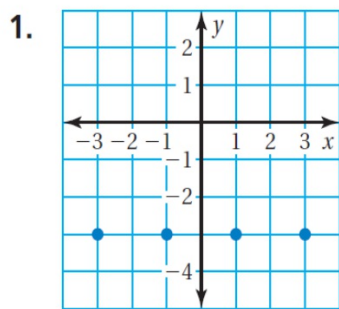
Domain:  $-3, -1, 1, 3$   
Range:  $-2, 0, 2, 4$



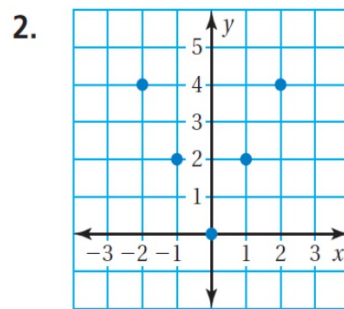
Identify the domain & range.



Identify the domain & range.

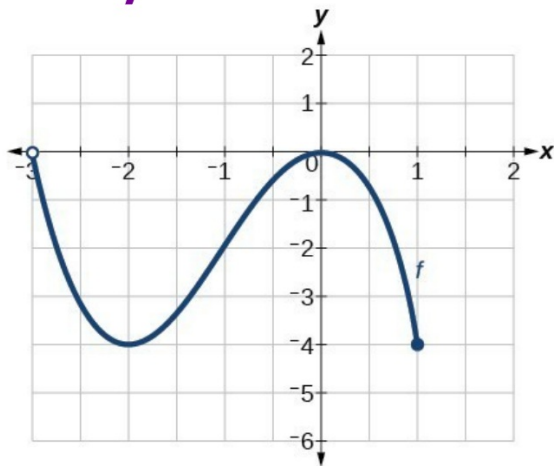


Domain:  $-3, -1, 1, 3$   
Range:  $-3$

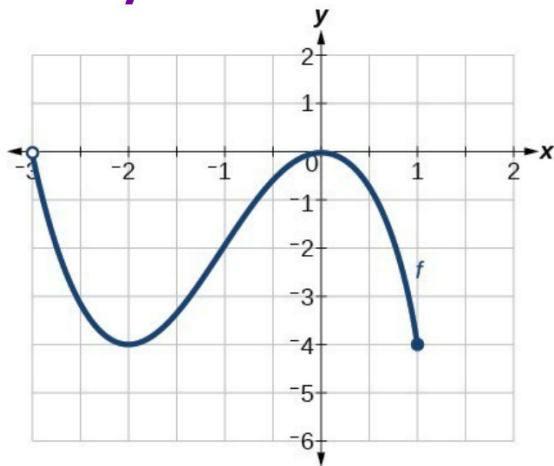


Domain:  $-2, -1, 0, 1, 2$   
Range:  $0, 2, 4$

Identify the domain & range.



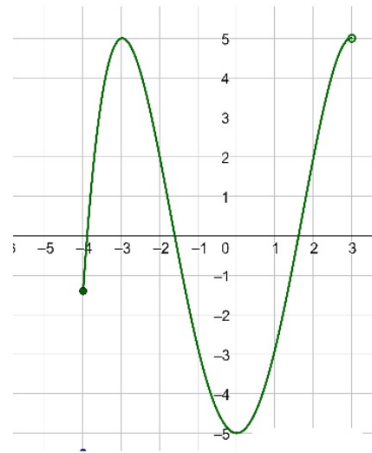
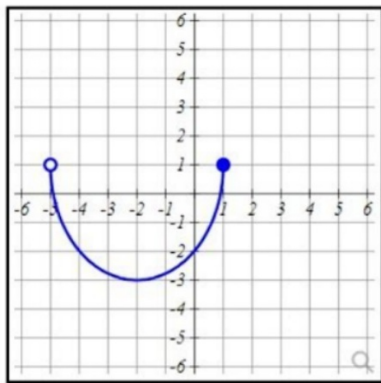
Identify the domain & range.



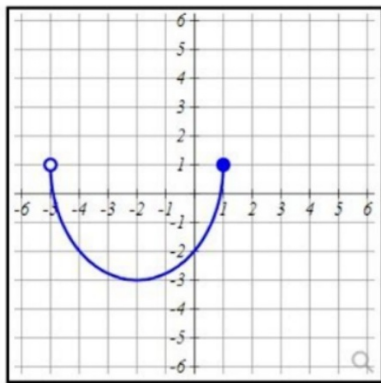
Domain:  $-3 < x \leq 1$

Range:  $-4 \leq y \leq 0$

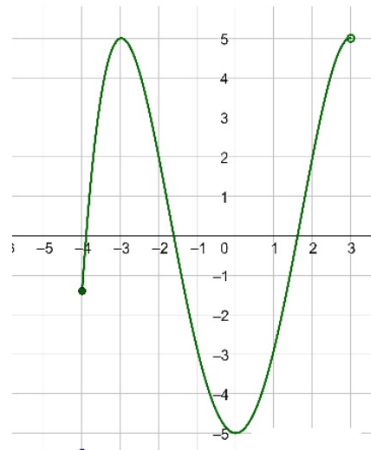
Identify the domain & range.



Identify the domain & range.



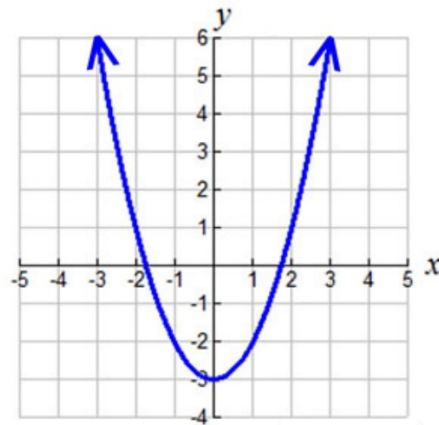
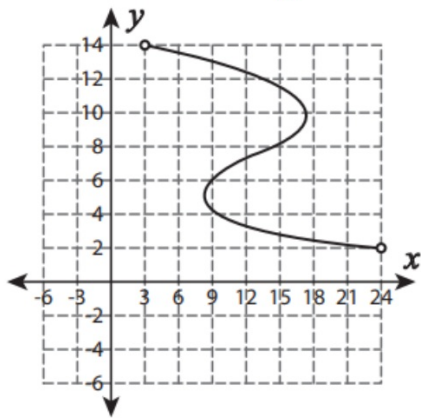
Domain:  $-5 < x \leq 1$   
Range:  $-4 \leq y \leq 1$



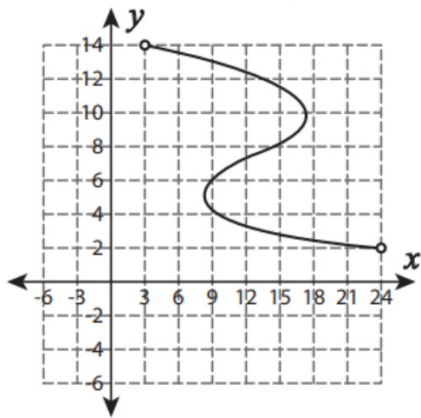
Domain:  $-4 \leq x < 3$   
Range:  $-5 \leq y \leq 5$



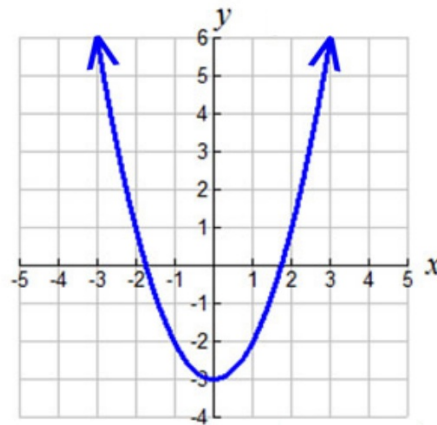
Identify the domain & range.



Identify the domain & range.



Domain:  $3 < x < 24$   
Range:  $2 < y < 14$



Domain: all real numbers  
Range:  $y \geq -3$

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## Identify the domain & range.

You are buying uniforms for your soccer team. The cost per uniform is \$22.50. You must have a minimum of 16 players and a maximum of 20 players on the team. What are the domain and range for this situation?

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Domain: (16, 17, 18, 19, 20)

Range: (360, 382.50, 405, 427.50, 450)

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## Identify the domain & range.

Your car has a 20-gallon gas tank. Gas costs \$3.25 per gallon. What are the domain & range that represent the cost of putting gas in your car?

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## Identify the domain & range.

Your car has a 20-gallon gas tank. Gas costs \$3.25 per gallon. What are the domain & range that represent the cost of putting gas in your car?

Domain:  $0 < x \leq 20$

Range:  $0 < y \leq 65$

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**Homework:**

**Domain & Range  
Worksheet**