
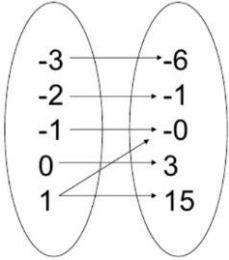
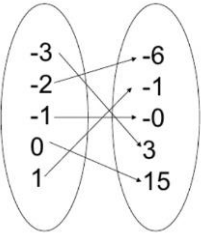
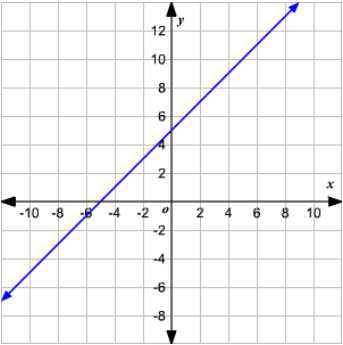
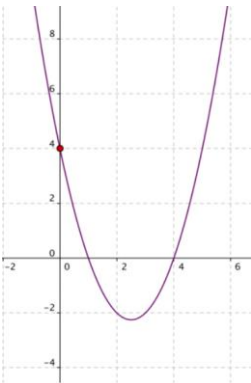


Part A: Identifying Functions [F-IF.A.1]

| State if the relations below are functions or not. Explain why or why not. | | | | | | | | | | | | | | | | | | |
|--|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| 1 |  |  | <table border="1" data-bbox="956 226 1118 470"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>4</td></tr> <tr><td>1</td><td>5</td></tr> <tr><td>3</td><td>8</td></tr> <tr><td>4</td><td>4</td></tr> <tr><td>5</td><td>10</td></tr> </tbody> </table> | x | y | 1 | 2 | 2 | 4 | 1 | 5 | 3 | 8 | 4 | 4 | 5 | 10 |  |
| x | y | | | | | | | | | | | | | | | | | |
| 1 | 2 | | | | | | | | | | | | | | | | | |
| 2 | 4 | | | | | | | | | | | | | | | | | |
| 1 | 5 | | | | | | | | | | | | | | | | | |
| 3 | 8 | | | | | | | | | | | | | | | | | |
| 4 | 4 | | | | | | | | | | | | | | | | | |
| 5 | 10 | | | | | | | | | | | | | | | | | |

Part B: Graphing Functions [F-IF.B.4]

| Answer the questions completely, using the graph below. | |
|---|---|
| <p>$f(x)$</p>  | 2. State the x-intercept and y-intercept as ordered pairs. |
| | 3. Circle one: The slope is POSITIVE / NEGATIVE |
| | 4. State the interval that represents the x-values for which the function $f(x)$ is negative. |

| Answer the questions completely, using the graph below. | |
|--|--|
| <p>$g(x)$</p>  | 5. State the x-intercept(s) and y-intercept as ordered pairs. |
| | 6. Circle one: The graph is INCREASING / DECREASING from 2.3 to infinity |
| | 7. State the interval(s) that represents the x-values for which the function $g(x)$ is positive. |

Part C: Interpreting Functions [F-IF.A.2]

| Answer the questions completely. | |
|----------------------------------|---|
| 8. | A function relates the input x , total miles a car has been driven, to the output $v(x)$, the value of the car in dollars. Explain the meaning of $v(105000) = 5500$. |
| 9. | State an appropriate domain for the function $v(x)$. |

