**3-1 Hwk WS and Book Problems**

**What are the domain and the range of each function?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *x* | −3 | −1 | 2 | 5 | 7 |
| *y* | 9 | 5 | 4 | −5 | −7 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *x* | 3 | 5 | 7 | 8 | 11 |
| *y* | 6 | 7 | 7 | 9 | 14 |

**1.**

**2.**

**Is each relation a function? If so, state whether it is one-to-one or not.**

**3.** {(−4, 7), (−3, 5), (1, 4), (3, −8), (5, −11)}

**4.** {(–4, 8), (–2, 4), (0, 1), (2, 4), (4, 8)}

**5.** 

**6.** 

**7.** Explain how the vertical line test checks to see if a relation is a function or not.

**8.** Fiona buys different amounts of gas at $2.25 per gallon. She has a graph that shows the amount she should pay as a function of the amount of gas she buys. What constraints are there on the domain of the function?

**AND book problems** pg 92 #2, 9, 15, 16, 22, 23, 28, 29

**3-1 Hwk WS and Book Problems**

**What are the domain and the range of each function?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *x* | −3 | −1 | 2 | 5 | 7 |
| *y* | 9 | 5 | 4 | −5 | −7 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *x* | 3 | 5 | 7 | 8 | 11 |
| *y* | 6 | 7 | 7 | 9 | 14 |

**1.**

**2.**

**Is each relation a function? If so, state whether it is one-to-one or not.**

**3.** {(−4, 7), (−3, 5), (1, 4), (3, −8), (5, −11)}

**4.** {(–4, 8), (–2, 4), (0, 1), (2, 4), (4, 8)}

**5.** 

**6.** 

**7.** Explain how the vertical line test checks to see if a relation is a function or not.

**8.** Fiona buys different amounts of gas at $2.25 per gallon. She has a graph that shows the amount she should pay as a function of the amount of gas she buys. What constraints are there on the domain of the function?

**AND book problems** pg 92 #2, 9, 15, 16, 22, 23, 28, 29