**1. Complete the following statement.**

|  |  |
| --- | --- |
| **a.** | A function is usually specified \_\_\_\_\_\_\_\_\_\_\_\_\_\_ using a table of values, \_\_\_\_\_\_\_\_\_\_\_\_\_using a graph, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_ using a formula. |
| **b.** | A function $f$ from set $A$ to set $B$ is \_\_\_\_\_\_\_\_\_\_\_\_\_ that assigns to each element$x$ in set$ A$ exactly one element $y$ in set$ B$**.** |

**2. Write T for true or F for false**

|  |  |  |
| --- | --- | --- |
| **a.** | The set of inputs is called **the codomain** of the function$ f$.  |  |
| **b.** | The set of all outputs is **the range of**$ f$ |  |

**Multiple Choices**

**3. The range of** $f\left(x\right)=x^{2}-5$

|  |  |  |
| --- | --- | --- |
| **a.** | $$[-5,\infty )$$ |  |
| **b.** | $$[5,\infty )$$ |  |
| **c.** | $$[\infty ,1)$$ |  |

**4. The range of** $f\left(x\right)=-4x^{2}+3$

|  |  |  |
| --- | --- | --- |
| **a.** | $$[3,\infty )$$ |  |
| **b.** | $$(-\infty ,3)$$ |  |
| **c.** | $$(-\infty ,3]$$ |  |

**5. The domain of** $f\left(x\right)=-8x+7$

|  |  |  |
| --- | --- | --- |
| **a.** | $$(-\infty ,7)$$ |  |
| **b.** | $$(-\infty ,\infty )$$ |  |
| **c.** | $$(8,7)$$ |  |

**ANSWERS**

**1. Complete the following statement.**

|  |  |
| --- | --- |
| **a.** | A function is usually specified numerically using a table of values, graphically using a graph, or algebraically using a formula. |
| **b.** | A function $f$ from set $A$ to set $B$ is a relation that assigns to each element$x$ in set$ A$ exactly one element $y$ in set$ B$**.** |

**2. Write T for true or F for false**

|  |  |  |
| --- | --- | --- |
| **a.** | The set of inputs is called **the codomain** of the function$ f$.  | **F** |
| **b.** | The set of all outputs is **the range of**$ f$ | **T** |

**Multiple Choices**

**3. The range of** $f\left(x\right)=x^{2}-5$

|  |  |  |
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| **a.** | $$[-5,\infty )$$ |  |
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**5. The domain of** $f\left(x\right)=-8x+7$

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| **a.** | $$(-\infty ,7)$$ |  |
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