

Functions Bell work

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 $f(x) = x^2 - 5$

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

4. The range of $f(x) = -4x^2 + 3$

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

5. The domain of $f(x) = -8x + 7$

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

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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 $f(x) = x^2 - 5$

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

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