

LESSON 6: Functions

Homework
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Directions: Given the linear equation $y = 4x + 1$, answer Questions 1–5.

1. What is the output, given an input of 3?
2. What is the output, given an input of 5?
3. What is the output, given an input of -1 ?
4. Given the input of 2, what would be the ordered pair?
5. Given the input of 6, what would be the ordered pair?
6. Given the linear equation $y = 3x - 4$, what is the output, given an input of 3?

Directions: For 7–10, identify each as linear or nonlinear and as a function or not a function.

7. $y = 3x + 2$ _____

8. $y = 2x^2 + 1$ _____

9. $x = -3$ _____

10. $y = \frac{1}{x+1}$ _____