Functions and Their Graphs: Worksheet

Algebra · Worksheet for https://jugami.com/algebra/functions/ · For instant feedback, try the self-guided quiz online.

Name _____ Date _____

Work each one on paper. Show your work, and write domains and ranges in interval notation.

1. For $f(x) = 2x^2 - 3x$, find $f(-3)$.

Answer: _____

2. For $h(x) = 7 - 3x$, solve $h(x) = -8$.

Answer: _____

3. Is {(3, 1), (5, 2), (3, 7)} a function?

Answer: _____

4. Find the domain of $f(x) = \sqrt{(x - 6)}$.

Answer: _____

5. Find the domain of $g(x) = 5/(x + 2)$.

Answer: _____

6. Find the range of $f(x) = |x| + 3$.

Answer: _____

7. Write $f(x) = x^2$ moved right 4 and down 1.

Answer: _____

8. Find the vertex and range of $g(x) = (x + 2)^2 - 3$.

Answer: _____

9. For $f(x) = 2 \cdot 5^x$, find $f(2)$.

Answer: _____

10. For $f(x) = 3^x$, find $f(-2)$.

Answer: _____

11. Is $y = 20(1.5)^x$ growth or decay? What is its y-intercept?

Answer: _____

Bonus

A little extra practice with the same skills.

12. For $f(x) = x^2 + 2x$, find $f(-3)$.

Answer: _____

13. Find the domain of $\sqrt{(x + 4)}$.

Answer: _____

14. Write $|x|$ moved left 2 and up 5.

Answer: _____