

4-1 Functions Worksheet

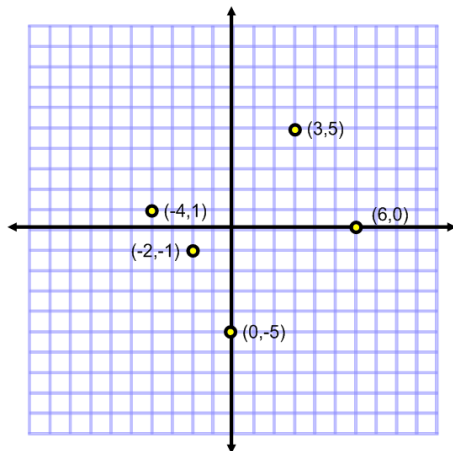
1. Write $y = x - 5$ in function form.
2. Write $2x - 3y = 4$ in function form.
3. Write $8x + 4y = 12$ in function form.

x-values y-values function $f(x)$

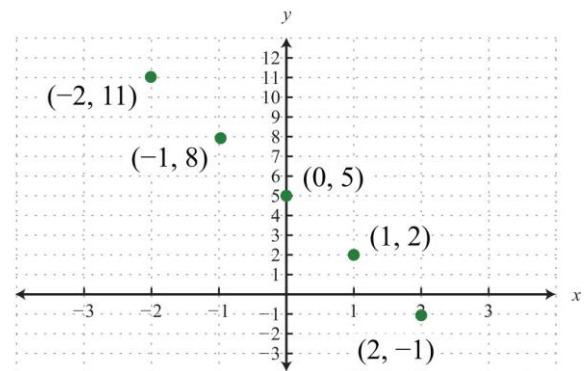
4. The domain are the _____.
5. _____ notation uses the $f(x)$ instead of y .
6. _____ is a synonym for the y variable.
7. The range are the _____.
8. The output are the _____.
9. The input are the _____.

List the domain and range for the following graphs

10.



11.



12. Write the equation of the line for the following points in function notation.

$(-2, 3)$, $(0, 2)$, $(2, 1)$, and $(4, 0)$

13. Find 4 inputs and outputs for $f(x) = 6x + 2$.
14. Find 4 inputs and outputs for $f(x) = -\frac{1}{2}x + 3$.
15. Find 4 inputs and outputs for $f(x) = -2x + 5$.
16. Describe the domain and range for $f(x) = |x|$.