

Precalculus Unit 1: Section 1.2 Worksheet
Domain of a Function

For each of the following functions, find the domain using both words and symbols.

Function

Domain

1. $f(x) = 3x - 2$

2. $f(x) = 1 + \frac{1}{x}$

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

4. $f(x) = \sqrt{x + 2}$

5. $f(x) = \frac{1}{x-3}$

6. $f(x) = \frac{x}{x^2-x-6}$

7. $f(x) = 4 - x^2$

8. $f(x) = \sqrt{9 - x^2}$ **Make sure you really stop to think about this one.**

9. $A = 4\pi r^2$ Surface Area of a Sphere

10. Write the equation for the line through the point $(7, -5)$ that is:

a. Parallel to $3x - 6y = 8$

b. Perpendicular to $3x - 6y = 8$