

MA 114 - Reading Assignment 5 - Section 2.1 - Spring 2008

Call me _____

1. A _____ is a correspondence between two sets.
2. A _____ is a certain type of correspondence that associates with each input exactly one output.
3. For the correspondence in question #2, the set of all inputs is called the _____.
4. For the correspondence in question #2, the set of all possible outputs (images) is called the _____.
5. Follow Example 6. For $f(x) = x^2 - 2x$, find $f(1)$, $f(-2)$, and $f(x - 3)$.

6. Follow Example 8. Find the domain of $f(x) = \frac{x}{x^2 - 1}$.

7. If f and g are functions, then:

$$(f + g)(x) = \underline{\hspace{2cm}}$$

$$(f - g)(x) = \underline{\hspace{2cm}}$$

$$(f \cdot g)(x) = \underline{\hspace{2cm}}$$

$$\left(\frac{f}{g}\right)(x) = \underline{\hspace{2cm}}$$