

Function Notation

Function notation is _____.

It helps us identify the _____ and _____ quantities.

The function $f(x)$ is read as "f of x".

$$x = \underline{\hspace{2cm}}$$

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

Rewrite each function using function notation.

1. $y = 3x - 8$

2. $y = 3x^2 + 6x - 1$

3. $y = 3^t + 8$

4. $y = |s - 2|$

Evaluate each of the following.

1. $2a + 4$ when $a = 5$

2. $3w - 2$ when $w = -8$

3. $f(x) = 4x + 9$ when $x = 2$

4. $f(x) = 2x - 4$ when $x = -1$

Solve each equation.

1. $x - 4 = -9$

2. $\frac{n}{6} = 5$

3. $5c = -15$

4. $6a + 2 = -4$

5. $\frac{r}{4} + 3 = 9$

6. $3(k + 8) = 21$

Substitute $f(x)$ and solve for x .

1. $f(x) = x - 4$ when $f(x) = 10$

2. $f(x) = 2x + 28$ when $f(x) = 328$

3. $f(x) = 4x - 10$ when $f(x) = 86$

4. $f(x) = x + 4$ when $f(x) = 2x - 8$