Answer Key · Lesson 4.3: Function Notation

School Launch · Algebra I · Unit 4 · Worksheet A · for the parent

Key

1. 0

Let $f(x) = x - 2$. Find $f(2)$.

2. 21

Let $f(x) = -5x - 9$. Find $f(-6)$.

3. 6

Let $f(x) = -1x + 1$. Find $f(-5)$.

4. 1

1. Substitute $x = -3$: $(-3)^2 + 4 \times (-3) + 4$
2. $= 9 + 4 \times (-3) + 4$
3. $= 9 + (-12) + 4$
4. $= 1$

Let $f(x) = x^2 + 4x + 4$. Find $f(-3)$.

5. 8

1. Substitute $x = -4$: $(-4)^2 + 3 \times (-4) + 4$
2. $= 16 + 3 \times (-4) + 4$
3. $= 16 + (-12) + 4$
4. $= 8$

Let $f(x) = x^2 + 3x + 4$. Find $f(-4)$.

6. 27

1. Substitute $x = -4$: $(-4)^2 - 4 \times (-4) - 5$
2. $= 16 - 4 \times (-4) - 5$
3. $= 16 - (-16) - 5$
4. $= 27$

Let $f(x) = x^2 - 4x - 5$. Find $f(-4)$.

7. 5

1. Substitute $x = 1$: $(1)^2 - 2 \times (1) + 6$
2. $= 1 - 2 \times (1) + 6$
3. $= 1 - 2 + 6$
4. $= 5$

Let $f(x) = x^2 - 2x + 6$. Find $f(1)$.

8. $x = -\frac{9}{2}$

1. Collect terms: $4x = -18$
2. Divide by 4: $x = -\dfrac{9}{2}$

Let $f(x) = 4x + 8$. Find the value of x for which $f(x) = -10$.

9. $x = \frac{13}{2}$

1. Collect terms: $-2x = -13$
2. Divide by -2: $x = \dfrac{13}{2}$

Let $f(x) = -2x + 1$. Find the value of x for which $f(x) = -12$.

10. $x = 0$

1. Collect terms: $-2x = 0$
2. Divide by -2: $x = 0$

Let $f(x) = -2x - 9$. Find the value of x for which $f(x) = -9$.