

Name: _____

Date _____

Topic : Composition of Functions - Worksheet 1

Using $f(x) = 4x + 3$ and $g(x) = x - 2$, find:

1. $f(g(5))$

2. $g(f(-6))$

3. $f(f(7))$

4. $g(f(x))$

Using $f(x) = 6x^2$ and $g(x) = 14x + 4$ find:

5. $(f \circ g)(x)$

6. $(g \circ f)(x)$

7. Are these two answers the same? What does this information tell you about composition?

The notation $[x]$ means the greatest integer not exceeding the value of x . Given

$f(x) = [x]$, $g(x) = 12x$ and $h(x) = 6/x$ find:

8. $(f \circ g)(5)$

9. $(f \circ h)(x)$

10. $(h \circ f)(3)$



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Topic : Composition of Functions - Worksheet 2

Using $f(x) = 5x + 4$ and $g(x) = x - 3$, find:

1. $f(g(6))$

2. $g(f(-7))$

3. $f(f(8))$

4. $g(f(x))$

Using $f(x) = 8x^2$ and $g(x) = 2x + 8$ find:

5. $(f \circ g)(x)$

6. $(f \circ g)(x)$

7. Are these two answers the same? What does this information tell you about composition?

The notation $[x]$ means the greatest integer not exceeding the value of x . Given $f(x) = [x]$, $g(x) = 15x$ and $h(x) = 8/x$ find:

8. $(f \circ g)(6)$

9. $(f \circ h)(4)$

10. $(h \circ f)(4)$



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Topic : Composition of Functions - Worksheet 3

Using $f(x)=6x+2$ and $g(x)=x-5$, find:

1. $f(g(7))$

2. $g(f(3))$

3. $f(f(2))$

4. $g(g(x))$

Using $f(x)=2x^2$ and $g(x)=3x+4$ find:

5. $(g \circ f)(5)$

6. $(f \circ g)(5)$

7. Are these two answers the same? What does this information tell you about composition?

The notation $[x]$ means the greatest integer not exceeding the value of x . Given

$f(x) = [x]$, $g(x) = 8x$ and $h(x) = 5/x$ find:

8. $(f \circ g)(4)$

9. $(f \circ h)(2)$

10. $(h \circ f)(x)$



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Topic : Composition of Functions - Worksheet 4

Using $f(x) = 7x + 4$ and $g(x) = 2x - 4$, find:

1. $f(g(3))$

2. $g(f(4))$

3. $f(f(3))$

4. $g(g(5))$

Using $f(x) = 8x$ and $g(x) = 4x + 2$ find:

5. $(g \circ g)(x)$

6. $(f \circ f)(x)$

7. Are these two answers the same? What does this information tell you about composition?

The notation $[x]$ means the greatest integer not exceeding the value of x . Given

$f(x) = [x]$, $g(x) = 4x$ and $h(x) = 4/x$ find:

8. $(f \circ g)(x)$

9. $(f \circ h)(4)$

10. $(h \circ f)(2)$



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Topic : Composition of Functions - Worksheet 5

Using $f(x) = 8x + 5$ and $g(x) = 7x - 2$, find:

1. $f(g(4))$

2. $g(f(6))$

3. $f(f(3))$

4. $g(g(2))$

Using $f(x) = 7x^2$ and $g(x) = 5x + 1$ find:

5. $(g \circ g)(2)$

6. $(f \circ f)(2)$

7. Are these two answers the same? What does this information tell you about composition?

The notation $[x]$ means the greatest integer not exceeding the value of x . Given

$f(x) = [x]$, $g(x) = 6x^2$ and $h(x) = 6/2x$ find:

8. $(f \circ g)(3)$

9. $(f \circ h)(5)$

10. $(h \circ f)(3)$

