

WS 2.5C Power of a Power**Simplify. Your answer should contain only positive exponents.**

1) $(2x^4y^3)^4$

2) $(3xy^{-4})^{-1}$

3) $(2x^{-4}y^2)^{-4}$

4) $(x^{-3})^{-3}$

5) $(4n^2)^4$

6) $(x^4y^4)^3$

7) $(3y^0x^{-2})^2$

8) $(4yx^4)^2$

Name:

Date:

Hour:

Algebra 1
WS 3.3A Function Notation

1. Evaluate the following expressions given the functions below. Write your answer as an ordered pair.

$g(x) = -3x + 1$ $f(x) = x^2 + 7$ $h(x) = \frac{12}{x}$ $j(x) = 2x + 9$

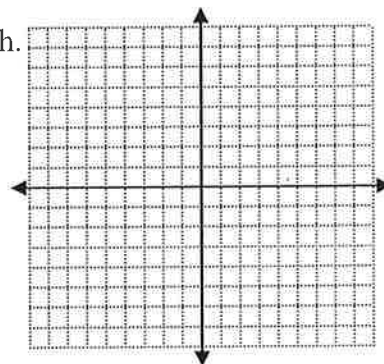
a. $g(10) =$ b. $f(3) =$ c. $h(-2) =$

d. $j(7) =$ e. $h(a) =$ f. $g(b+c) =$

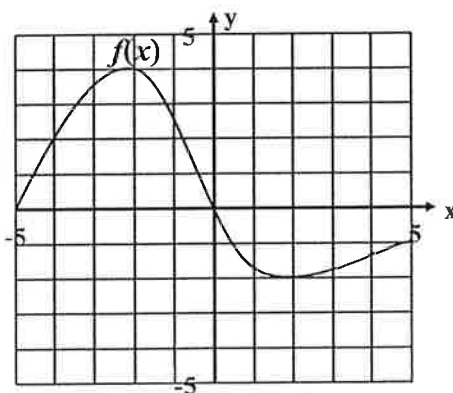
h. Find x if $g(x) = 16$ i. Find x if $h(x) = -2$ j. Find x if $f(x) = 23$

2. Given $f(x) = 3 - 4x$. Fill in the table and then sketch a graph.

x	$f(x)$
-6	
-3	
0	
1	
	-5



3. Given this graph of the function $f(x)$:



Find:

a. $f(-4) =$ b. $f(0) =$ c. $f(3) =$ d. $f(-5) =$

e. x when $f(x) = 2$ f. x when $f(x) = 0$