Algebra 1 Bellwork Wednesday, December 9
, 2015

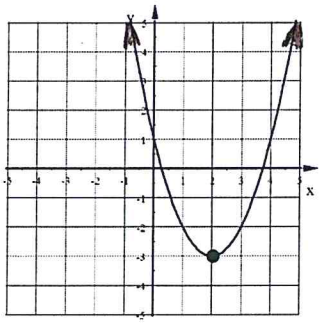
6th hr

1. Is each of the below a function?

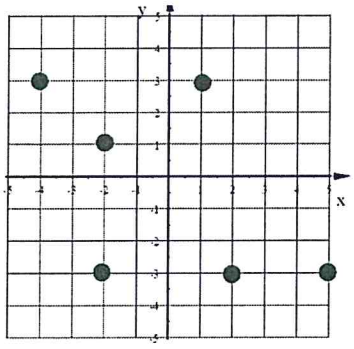
a)

X	Y
−4	9
4	−1
7	4
11	9

b)



c)



d) $(5,7)(-6,2)(5,-1)(4,3)(1,-8)$

2. Use the graphs above.

a) State the Domain and Range for the graph in 1 b).

Domain: Range:

b) State the Domain and Range for the graph in 1 c).

Domain: Range:

3. Use these two functions: $f(x) = -2x^2 + 10$ $g(w) = 10 - 3w$

a) Find $f(-3)$

b) Find w when $g(w) = 22$

c) Find $f(2) - g(3)$

d) Find $7g(1)$

Algebra 1 Bellwork Wednesday, December 9 , 2015 ANSWERS 6

1. Is each of the below a function?

a) Yes

X	Y
−4	9
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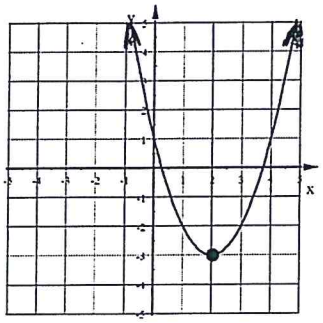
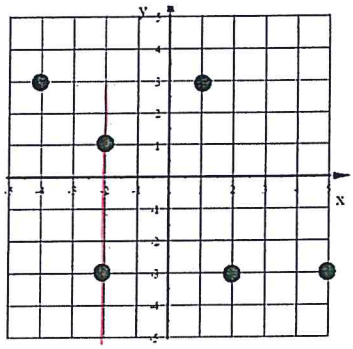
b) Yes



c) NO



d) (5,7)(−6,2)(5,−1)(4,3)(1,−8) NO

2. Use the graphs above.

a) State the Domain and Range for the graph in 1 b).

Domain: ALL REAL #'s Range: $y \geq -3$

b) State the Domain and Range for the graph in 1 c).

Domain: $\{-4, -2, 1, 2, 5\}$ Range: $\{-3, 1, 3\}$

3. Use these two functions: $f(x) = -2x^2 + 10$ $g(w) = 10 - 3w$

a) Find $f(-3)$ $= -2(-3)^2 + 10$

$= -2(9) + 10$

$= -18 + 10$

$f(-3) = -8$

b) Find w when $g(w) = 22$

$22 = 10 - 3w$

$-10 \quad -10$

$\rightarrow \quad \frac{12}{-3} = \frac{-3w}{-3} \quad \rightarrow \quad w = -4$

c) Find $f(2) - g(3)$

$f(2) = -2(2)^2 + 10 = -2(4) + 10 = -8 + 10 = 2$

$g(3) = 10 - 3(3) = 10 - 9 = 1$

$f(2) - g(3) = 2 - 1 = 1$

d) Find $7g(1)$

This means "seven times $g(1)$"

$g(1) = 10 - 3(1) = 10 - 3 = 7$

$7g(1) = 7 \cdot 7 = 49$