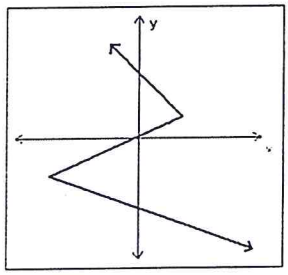
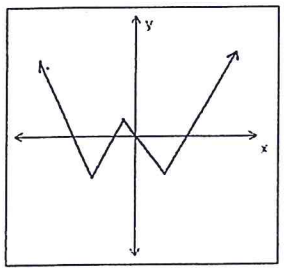
Algebra 2 Bellwork Thursday, October 1, 2015

For 1 to 4 tell if each of the following relations is a function or not.

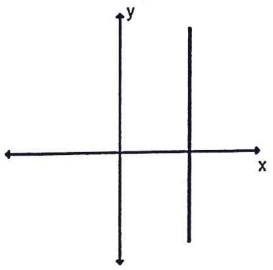
1.



2.



3.



4. $(3,7),(-3,3),(8,7),(-1,-3)$

5. Given the function $g(x) = 3x^2 - 5$. Find the Range for this given domain: $x : \{-2,1,2,5\}$

Range:

6. Use this function: $h(w) = w^2 - 7w + 1$

a) Find $h(-4)$

b) Find $h(2C)$

c) Find $h(x-3)$

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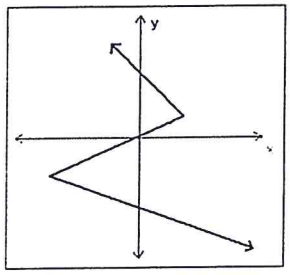
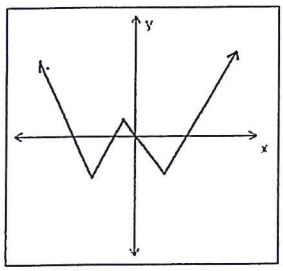
ANSWERS

For 1 to 4 tell if each of the following relations is a function or not.

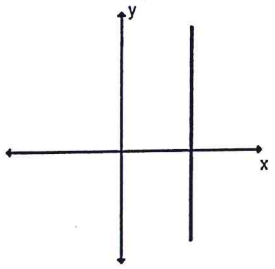
1. NOT A FUNCTION



2. FUNCTION



3. NOT A FUNCTION



4. $(3,7),(-3,3),(8,7),(-1,-3)$ FUNCTION

5. Given the function $g(x) = 3x^2 - 5$. Find the Range for this given domain: $x : \{-2,1,2,5\}$

Range: $\{-2, 7, 70\}$

$g(-2) = 3(-2)^2 - 5 = 3 \cdot 4 - 5 = 7$

$g(1) = 3(1)^2 - 5 = 3 \cdot 1 - 5 = -2$

$g(2) = 3(2)^2 - 5 = 3 \cdot 4 - 5 = 7$

$g(5) = 3(5)^2 - 5 = 3 \cdot 25 - 5 = 7$

6. Use this function: $h(w) = w^2 - 7w + 1$

a) Find $h(-4)$

$= (-4)^2 - 7(-4) + 1$

$= 16 + 28 + 1$

$= 45$

b) Find $h(2C)$

$= (2C)^2 - 7(2C) + 1$

$= 4C^2 - 14C + 1$

c) Find $h(x-3)$

$= (x-3)^2 - 7(x-3) + 1$

$= x^2 - 6x + 9 - 7x + 21 + 1$

$= x^2 - 13x + 31$

$(x-3)^2 = x^2 - 6x + 9$

	x	-3
x	x^2	$-3x$
-3	$-3x$	$+9$