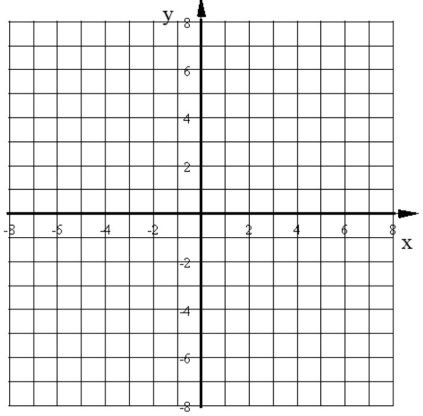
Algebra 1 Bellwork Tuesday, February 11, 2014

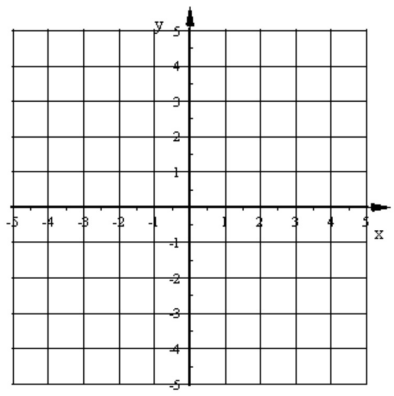
1. Graph using at least 5 points. Make sure the whole graph is shown.

$y = 3(x - 2)^2 - 7$



2. Graph this direct variation

$y = 3x$



3. Write a function rule for each table of values.

a)

X	Y
-8	1.6
-3	0.6
2	-0.4
7	-1.4
11	-2.2

b)

X	Y
-15	-0.1
-6	8.9
1	15.9
13	27.9
31	45.9

4. Use this function: $T(c) = -c^2 + 4c$

Find the range that comes from this domain: { -2, 2, 3}

5. The number of chairs produced varies directly with the number of employees at work. When there are 12 employees working the shop makes 78 chairs.

a) Model this situation with a direct variation equation.

b) How many employees are needed to make 200 chairs?