M2 Module 2 Bellwork
Week 8: 10/3-10/7

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Name_____ Period_____

M2D12 Rewrite each of the following quadratics in vertex form.

1. $A(x) = x^2 + 6x - 8$
2. $A(x) = 4x^2 - 16x + 3$
3. $A(x) = -2x^2 - 16x + 1$

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M2D13 **Copy the Vocabulary on the vocab handout!!**

M2D14 Rewrite the quadratics in vertex form. Then identify the vertex and graph the function.

1. $f(x) = \frac{1}{2}x^2 + 4x + 11$
2. $g(x) = -4x^2 + 48x - 136$

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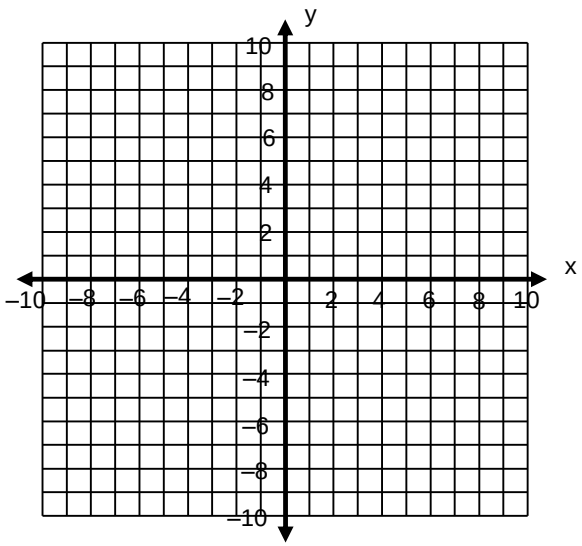
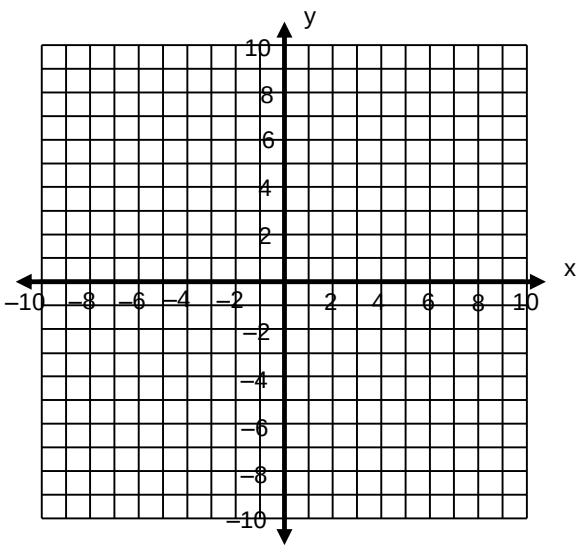
Vertex: _____



Vertex: _____



M2D15

Identify the pattern in the tables as linear, exponential or quadratic. Write the recursive and explicit equations for each table. Clearly show your reasoning!

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1.

x	$f(x)$
2	256
3	64
4	16
5	4
6	1

Recursive equation:

Explicit equation:

2.

x	$g(x)$
1	2
2	–7
3	–22
4	–43
5	–70

Recursive equation:

Explicit equation: