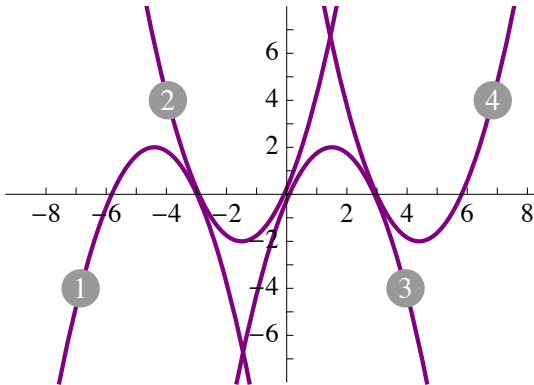


## Vertex Form II

1. Find the equations that will make this design.



1	$y =$
2	$y =$
3	$y =$
4	$y =$

2. Can you find the coordinates of the vertex without even graphing the parabola? Find the vertex coordinates first and then check by graphing.

a.  $y = 2(x - 3)^2 + 7$

Vertex:	
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b.  $y = 0.8(x + 3.5)^2 - 6.2$

Vertex:	
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c.  $y = -0.3(x - 15)^2 + 20$

Vertex:	
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3. The rocket formula given at the beginning of the unit is

$$h(t) = 160 + 92t - 16t^2$$

This formula is not in vertex form. Estimate the vertex of this parabola by graphing.

Vertex:	
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