

**Quiz 118** .....

Find the vertex.

1.  $y = (x + 3)(x - 3)$

2.  $y = -\frac{2}{3}(x - 3)(x - 9)$

Graph by plotting the vertex and x-intercepts.

3.  $y = -(x - 1)(x - 3)$

	3						
	2						
x	1						
-1	0	1	2	3	4	5	6
	-1						
	-2						
	-3						
	-4						
	y						

4.  $y = \frac{1}{2}x(x + 4)$

						4	
						3	
						2	
x						1	
-5	-4	-3	-2	-1	0	1	2
						-1	
						-2	
						-3	
						y	

5.  $y = 2(x + 1)(x - 1)$

						4	
						3	
						2	
x						1	
-3	-2	-1	0	1	2	3	4
						-1	
						-2	
						-3	
						y	