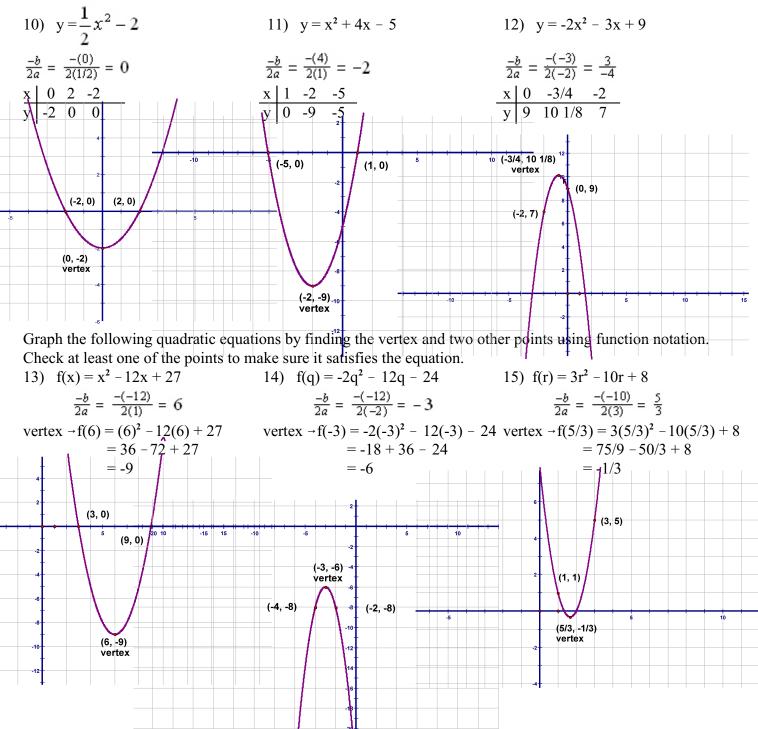
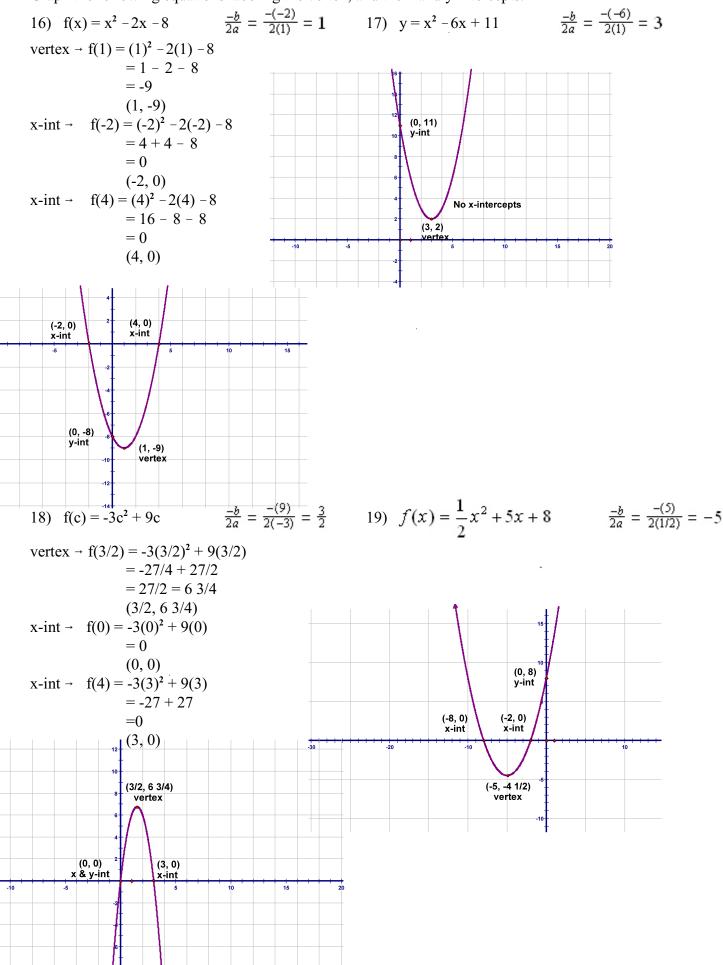
## Quadratic Equations 2 Algebra 2

Give the quadratic, linear, and constant terms of the following equations.				
1) $y = 5x + 11$	2) $d = 12c^2$ 3)	$k = 7j^2 - 13j + 11$	$4)  y = 2x^2 + 4x$	
$Quad = 0x^2$	$Quad = 12c^2$	$Quad = 7j^2$	$Quad = 2x^2$	
Linear = 5x	Linear = 0c	Linear = -13j	Linear = 4x	
Constant = 11	Constant = 0	Constant = 11	Constant = 0	
Give the values of a, b, and c in the following quadratic equations.				
5) $w = 2v^2 + 6v - 10$	6) $y = 5x^2 - 12$	7) $b = 2a$	8) $y = (x + 7)(3x - 13)$	
a = 2, b = 6, c = -10	a = 5, b = 0, c = -12	a = 0, b = 2, c =	= 0  a = 3, b = 8, c = -91	

9) What is the graph of an equation? *The set of points whose coordinates satisfy the equation.* Graph the following quadratic equations by finding the vertex and two other points using a t-table. Check at least one of the points to make sure it satisfies the equation.



Graph the following equations labeling the vertex, and the x and y-intercepts.



Solve the following equations. 20) $0 = v^2 - 9v + 8$		21) $0 = x^2 + 14x + 49$	
	0 = (v - 8)(v - 1)	0 = (x + 7)(x + 7)	
	v = 8 and 1	x = -7	
22)	$0=5b^2-20$	23) $0 = 9c^2 - 4$	
	0 = 5(b+2)(b-2)	0 = (3c - 2)(3c + 2)	
	b = -2 and 2	c = 2/3 and $-2/3$	

24)  $0 = 12x^2 + x - 6$  12(-6) = -729(-8)  $0 = (12x^2 - 8x) + (9x - 6)$ 0 = 4x(3x - 2) + 3(3x - 2)

x = -3/4 and 2/3

0 = (4x + 3)(3x - 2)

25)  $0 = 10x^2 - 15x - 70$   $0 = 5(2x^2 - 3x - 14)$  2(14) = 28 -7(4)  $0 = 5(2x^2 - 7x + 4x - 14)$   $(2x^2 - 7x) + (4x - 14)$  x(2x - 7) + 2(x - 7) 0 = (x + 2)(x - 7)x = -2 and 7