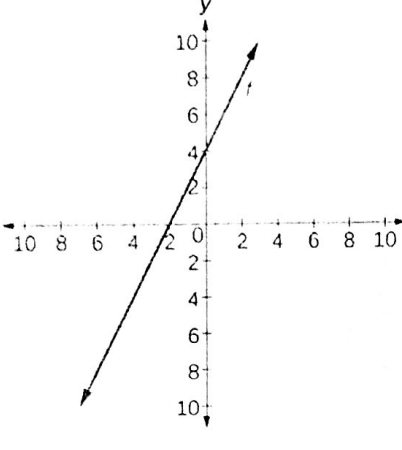
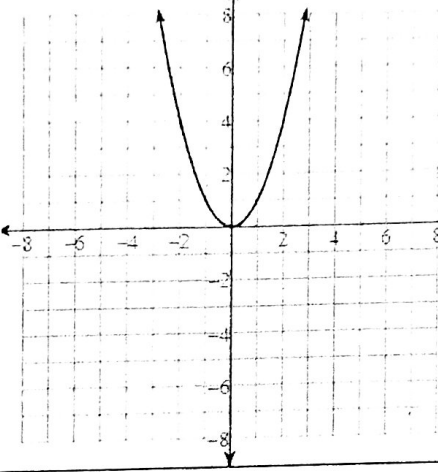
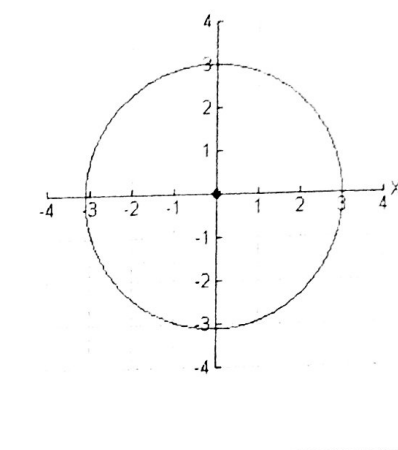
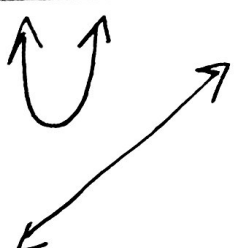


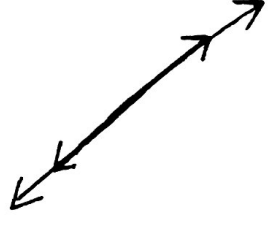


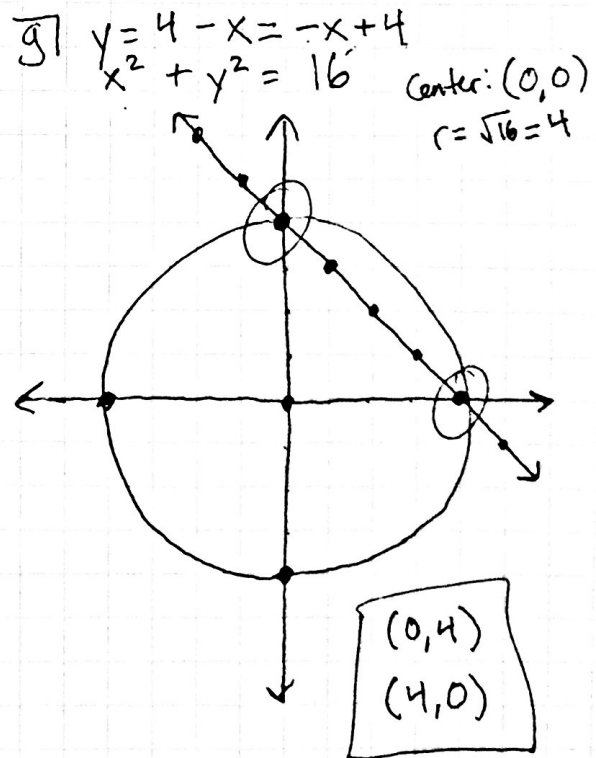
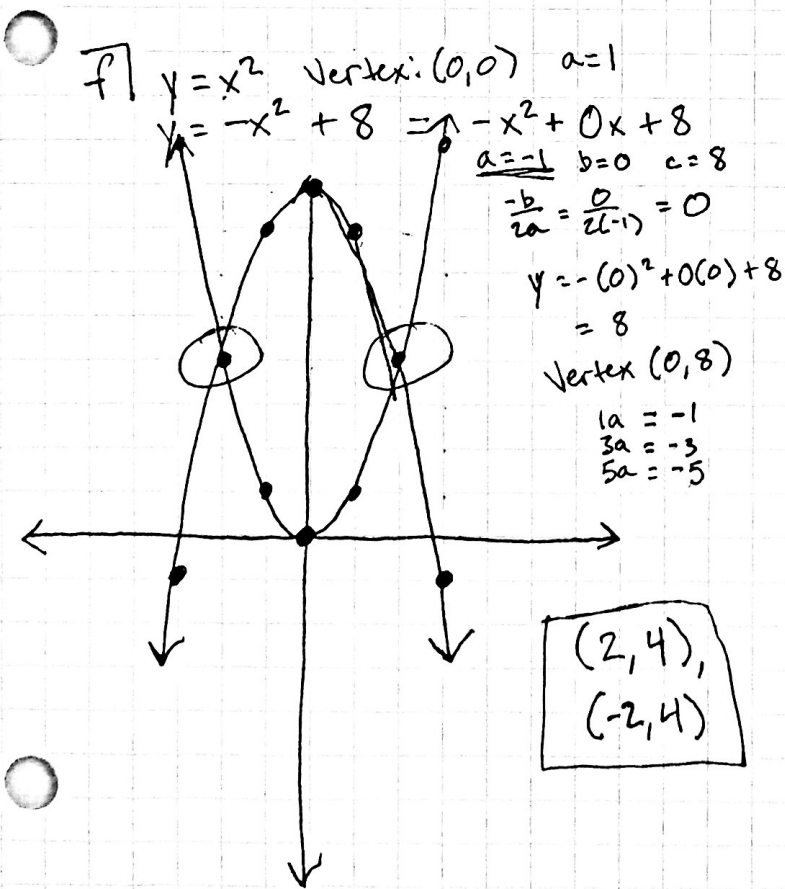
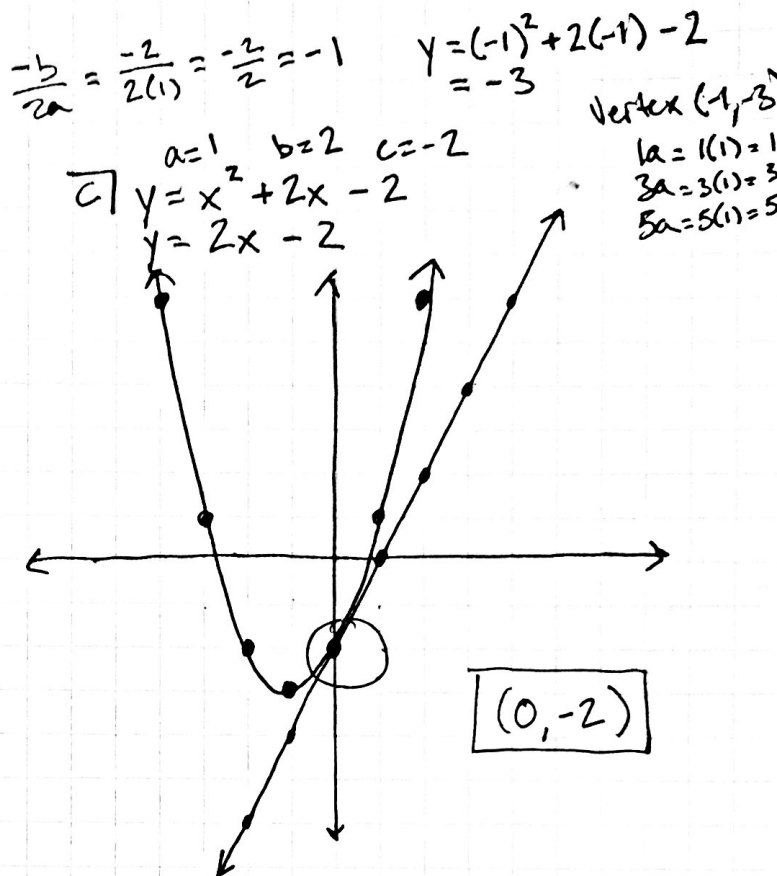
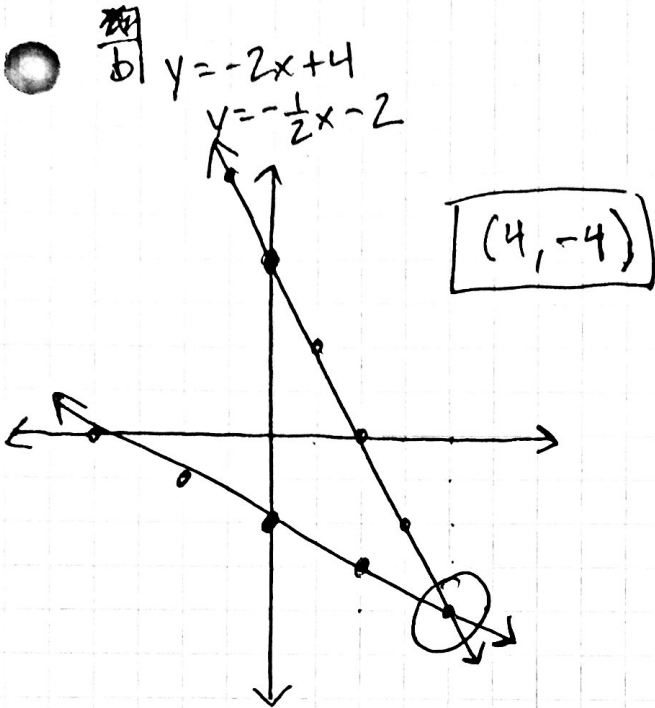
7.3 Solving Systems by Graphing

Linear Equations	Quadratic Equations	Circle Equations
		
$y = mx + b$	$y = ax^2 + bx + c$	$(x-h)^2 + (y-k)^2 = r^2$
$m = \text{slope}$ $b = \text{y-intercept}$	Vertex = $(-\frac{b}{2a}, \text{plug it in})$	$(h, k) = \text{Center}$ $r = \text{Radius}$

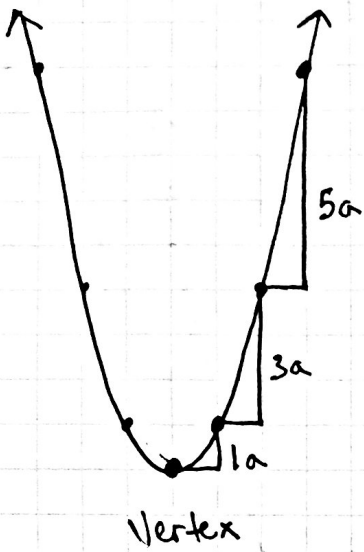
A system of equations is a set of equations with the same VARIABLE(S). The solution(s) to a system of equations are the **points of intersection** and are to be written as **ordered pairs**. A system of equations can have...

No real solutions	One real solution	Two real solutions	Infinite real solutions
			
No intersection	One intersection	Two intersections	Same graph

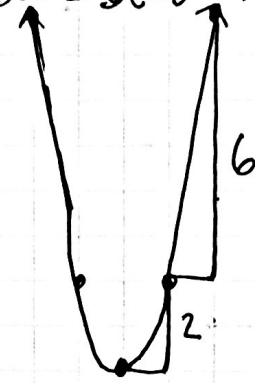
7.3 Examples



Quadratics



ex: $a = 2$
 $1a = 1(2) = 2$
 $3a = 3(2) = 6$
 $5a = 5(2) = 10$



Line: x
Parabola: x^2
Circle: $x^2 + y^2$