1. Mark the points $P_1(1, -4)$ and $P_2(-5, 2)$ on a coordinate plane. Determine the distance between the two points.

2. Graph the following equation by plotting the points. Determine the x- and y-intercepts and then mark the points on your graph.

$$x = |y-1|+1$$

(|x| means the absolute value of x)

3.	Mark the point	P(1,2) on a x - y	plane. Determin	e the points	on the x -ax	is that are	e distance 3	away
from P and mark them on the coordinate plane.								

4. Write an equation of a circle centered at (1,0) with a radius 3.

5. (a) Find a such that

$$x^2 + 6x = (x+a)^2 - c$$

for some c.

(b) Find b such that

$$y^2 - 2y = (y+b)^2 - d$$

for some d.

(c) Put the following equation of a circle in the standard form

$$x^2 + 6x + y^2 - 2y + 7 = 0$$