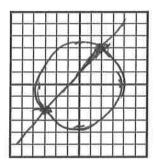
Math 90 - Quiz # 10

Name Law

For the system of equations:

$$x^2 + y^2 = 13$$
  
 $(y \neq x + 1)$ 

Solve the system algebraically, and graph the equations, showing the solution points.



$$x^{2}+(x+1)^{2}=13$$

$$x^{2}+x^{2}+2x+1=13$$

$$2-x^{2}+2x-12=0$$

$$x^{2}+x-12=0$$

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

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

$$x=-3,2$$

$$y=2+1=3$$

$$12-3$$

$$0x = -3$$

$$y = -3 + 1 = -2$$

$$(-3, -2)$$

$$y = 2 + 1 = 3$$
 $(2,3)$