## MATH 2D Review: Linear and Quadratic Curves

1. Let  $\mathcal{C}$  be the curve such that a point P(x,y) is on  $\mathcal{C}$  if and only if the distance from P to the line x=-1 is equal to the distance from P to the point F(1,0). Find an equation for the curve  $\mathcal{C}$ , and sketch the curve. What is the name of the curve?

(Hint: Use the given information to set up an equation that x and y must satisfy)

2. Sketch the curve  $C: x^2 - 4x + 4y^2 = 0$  and write down the coordinates of at least 3 points on the curve. What is the name of this curve?