Math 338: Homework #3 (Conic sections)

#1 Verify that $V(x+c)^2+y^2+V(x-c)^2+y^2=2a$

rationatijes to $\frac{\chi^2}{\alpha^2} + \frac{\chi^2}{\alpha^2 - C^2} = 1$

#2. On a piece of graph paper, using a focus at (5,0) and directing x=0, draw a conic sections with executricity

a).2 b).8 c) 1 d) 1.4 e) 5

3. Find the focus, exentricity and directive of the ellipse $\frac{x^2}{9} + \frac{y^2}{16} = 1$

×4.