

Ellipses 7-4

Definition of an Ellipse

Picture

Major axis

Minor axis

Foci

Center

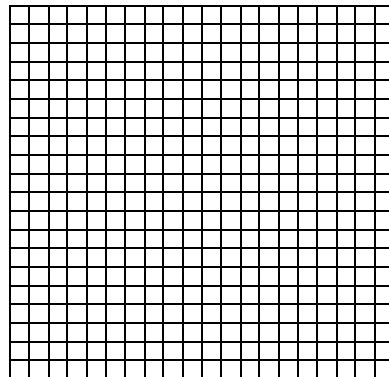
Standard Equation Form

Horizontal Major Axis	Vertical Major Axis

Length of Major Axis		
Length of Minor Axis		
Center		
Foci		

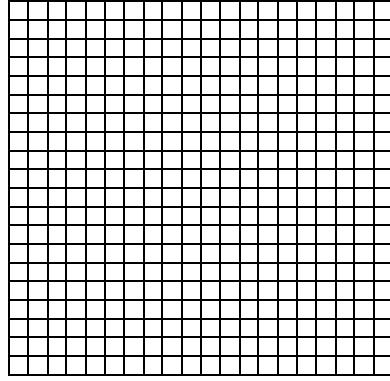
Find the coordinates of the center and the foci and the lengths of the major and minor axes. Then graph it.

1. $\frac{x^2}{9} + \frac{y^2}{64} = 1$

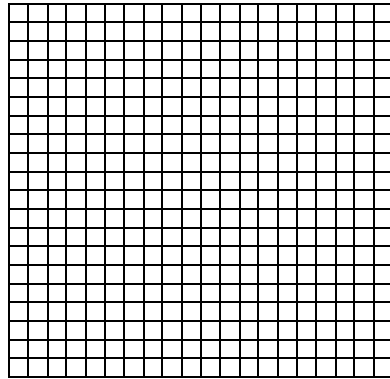


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2. $\frac{(x+3)^2}{4} + \frac{(y+1)^2}{9} = 1$



3. $9x^2 + 16y^2 = 144$



4. $x^2 + 4y^2 + 24y = -32$

