

Standard Form equation of Ellipse

Lesson online @ www.mathwarehouse.com/ellipse/equation-of-ellipse.php

© www.mathwarehouse.com

All Rights Reserved

Commercial Use Prohibited

TEACHERS: Feel free to make copies of this worksheet for the sole purpose of use in your own classroom. ENJOY!!! Redistribution in any other form is prohibited.

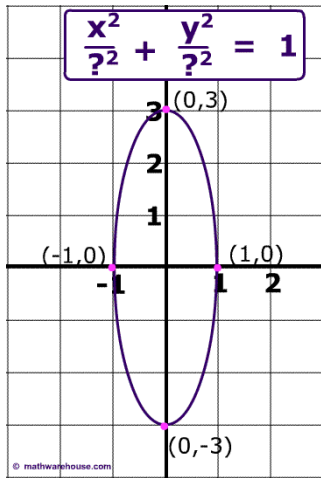
More Math worksheets and activities available at

www.mathwarehouse.com/classroom/worksheets-and-activities.php

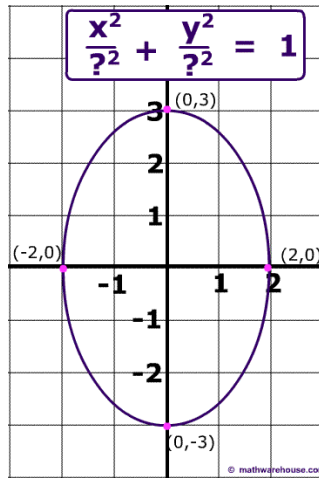
Play Math Games at TheMathGames.com

Directions: Find the values of a and b and write the equation for each ellipse.

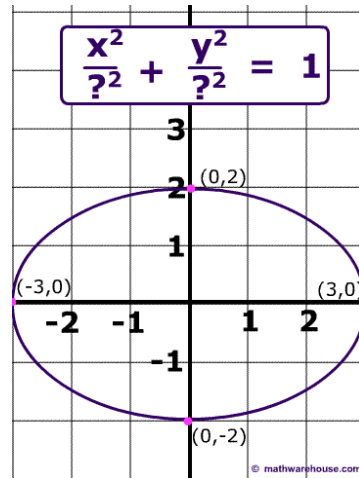
1)



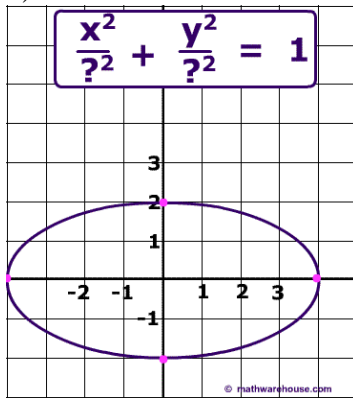
2)



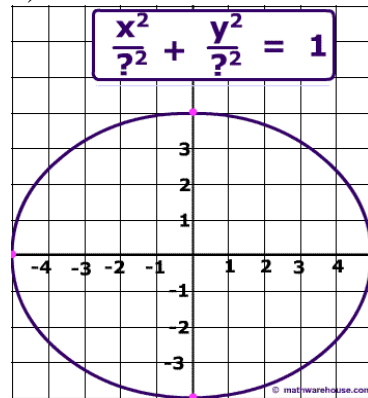
3)



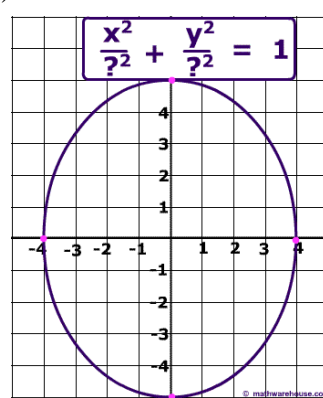
4)



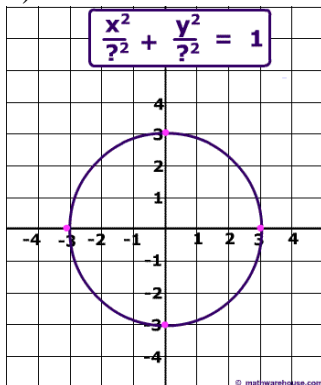
5)



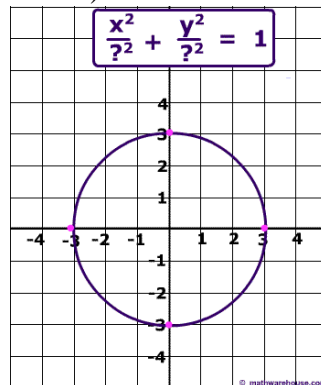
6)



7)

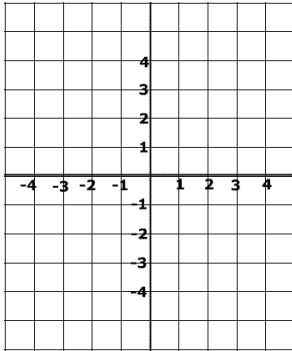


8)

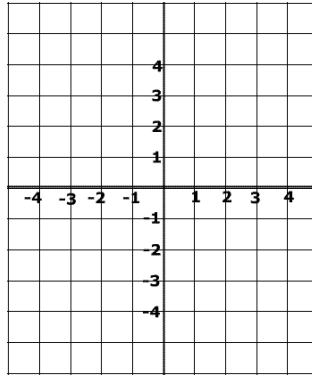


Part II **Directions:** Graph ellipses with the following equations

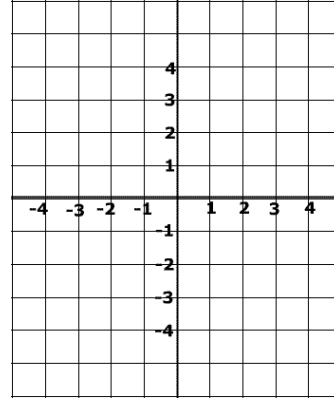
1) $\frac{x^2}{2^2} + \frac{y^2}{5^2} = 1$



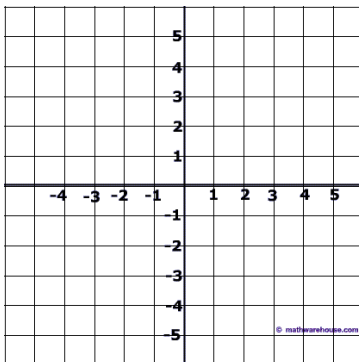
2) $\frac{x^2}{25} + \frac{y^2}{9} = 1$



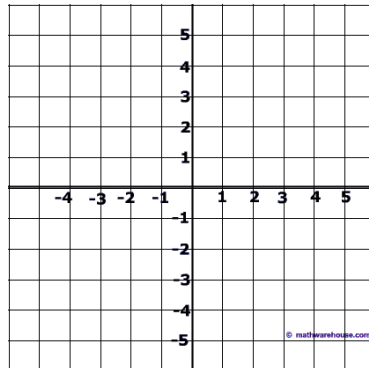
3) $\frac{x^2}{25} + \frac{y^2}{36} = 1$



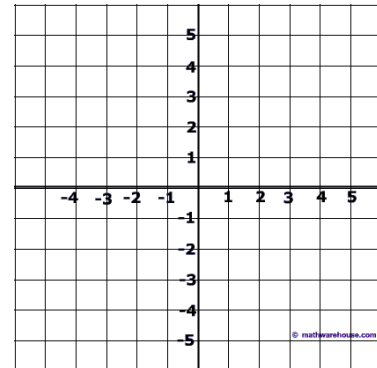
4) $\frac{x^2}{36} + \frac{y^2}{25} = 1$



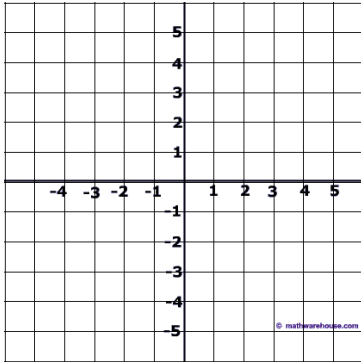
5) $\frac{x^2}{36} + \frac{y^2}{4} = 1$



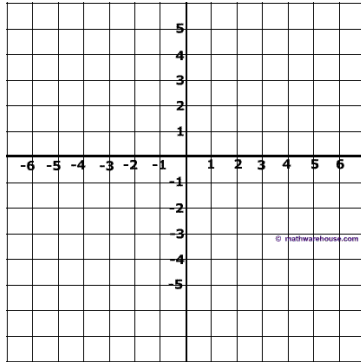
6) $\frac{x^2}{1} + \frac{y^2}{36} = 1$



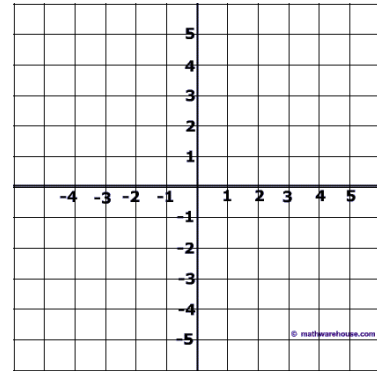
7) $\frac{x^2}{36} + \frac{y^2}{4} = 1$



8) $\frac{x^2}{49} + \frac{y^2}{9} = 1$



9) $9x^2 + 4y^2 = 36$



Equation of Ellipse Activity

Task #1) Pick a number to be a and b for an ellipse.

a: ___ b: ___

Task #2) Write the equation of the ellipse:

Equation: _____

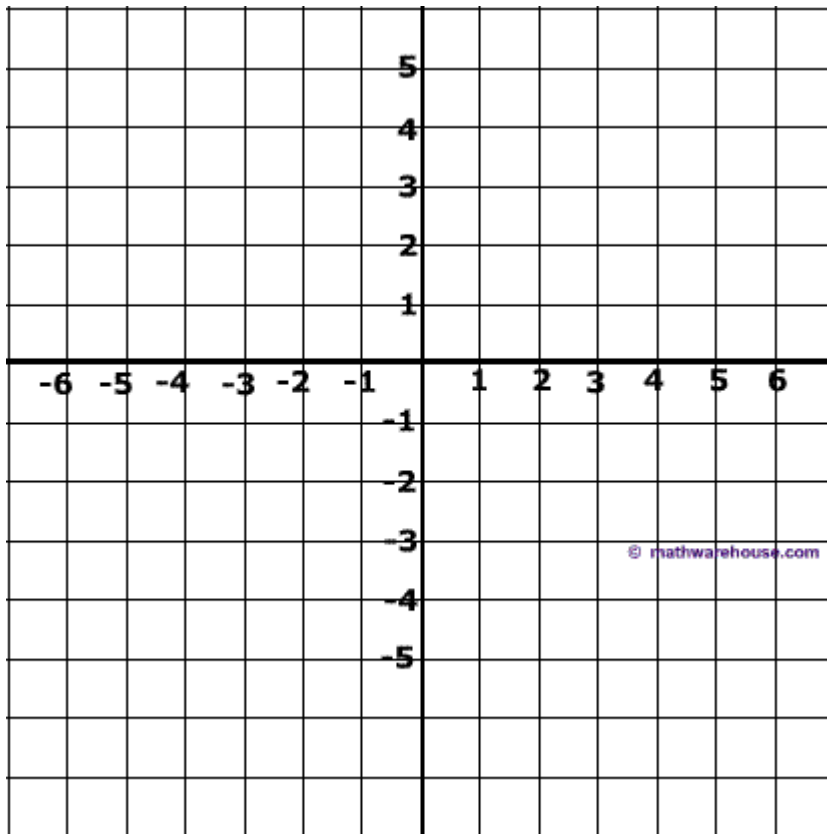
Task #3) Graph the ellipse and label each of the following

Major axis: _____

Minor Axis: _____

Vertices: _____

Co-Vertices: _____



© www.mathwarehouse.com

All Rights Reserved
Commercial Use Prohibited

TEACHERS: Feel free to make copies of this worksheet for the sole purpose of use in your own classroom. ENJOY!!! Redistribution in any other form is prohibited.

More Math worksheets and activities available at
www.mathwarehouse.com/classroom/worksheets-and-activities.php

Play Math Games at TheMathGames.com

