

Answer on Question #45380 – Math – Analytical Geometry

Graph the ellipse with equation x^2 divided by forty nine plus y^2 squared divided by thirty six = 1

Solution:

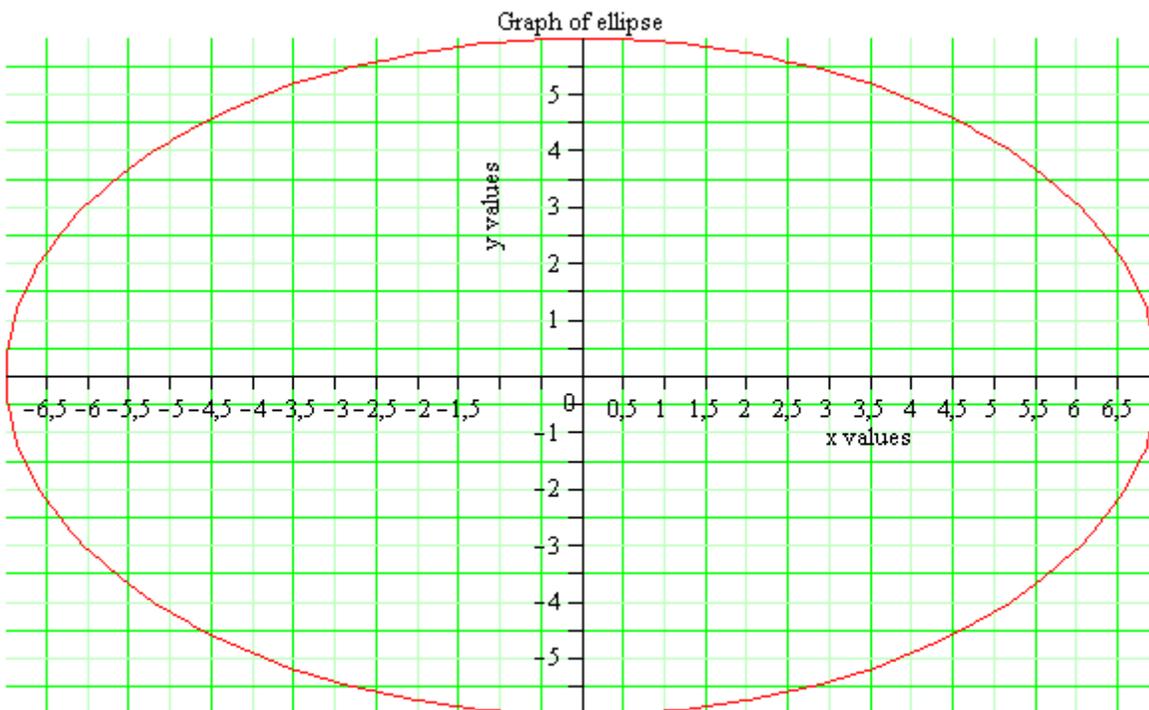
Graph the ellipse with equation:

$$\frac{x^2}{49} + \frac{y^2}{36} = 1$$

Ellipse has vertices in points $(-7;0)$, $(7;0)$, $(0, -6)$, $(0, 6)$.

Ellipse was drawn using MAPLE 15:

```
implicitplot( $\frac{x^2}{49} + \frac{y^2}{36} = 1$ ,  $x = -10..10$ ,  $y = -10..10$ , title  
= "Graph of ellipse", axis = [gridlines = [30, colour = green,  
majorlines = 2]], caption = typeset("A plot of ",  $\frac{x^2}{49} + \frac{y^2}{36} = 1$ ,  
"."), axes = normal, labels = ["x values", "y values"],  
labeldirections = [horizontal, vertical])
```



A plot of $\frac{1}{49}x^2 + \frac{1}{36}y^2 = 1$.