# Answer on Question \#46882 - Math - Analytic Geometry 

## Question:

Find the center, vertices, and foci of the ellipse with equation

$$
\frac{x^{2}}{100}+\frac{y^{2}}{36}=1
$$

## Solution:

The center of the ellipse is $(0 ; 0)$.
The vertices are: $(-10,0),(10,0),(0,6),(0,-6)$.
The eccentricity is $c=\sqrt{100-36}=\sqrt{64}=8$, so the two foci are: $(-8,0)$ and $(8,0)$.

