Answer on Question #57279 – Math – Analytic Geometry

Question

Which of the following expressions represent the eccentricity of an ellipse?

A. $\frac{c}{a}$;

B. $\frac{b}{a}$;

C. $\frac{a}{c}$;

D. None of the above are correct.

Solution

The eccentricity of an ellipse is expressed by the formula

$$e = \frac{c}{a},$$

where c is the distance from the centre of the ellipse to a focus and a is the length of the semimajor axis.

Answer: A. $\frac{c}{a}$.