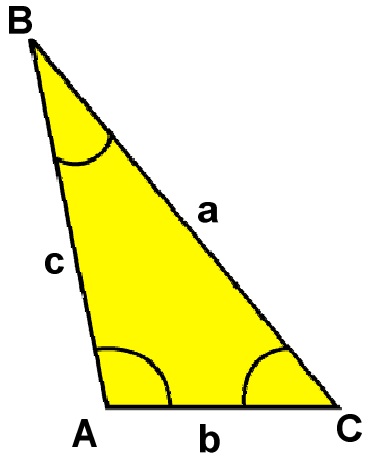
Law of Sines



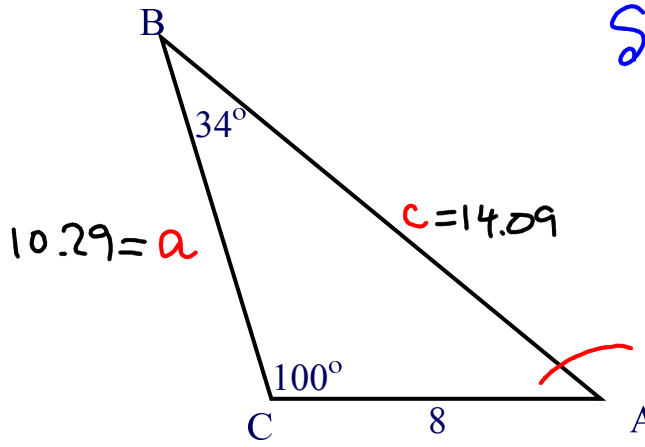
$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

or

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

HINT

Solve the triangle.



$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin 46}{a} = \frac{\sin 34}{8} \rightsquigarrow \frac{8\sin 46}{\sin 34} = a$$

$$a = 10.29$$

$$\frac{\sin B}{b} = \frac{\sin C}{c} = \boxed{\frac{\sin 34}{8} = \frac{\sin 100}{C}} \rightarrow C = \frac{8\sin 100}{\sin 34}$$

$$C = 14.09$$