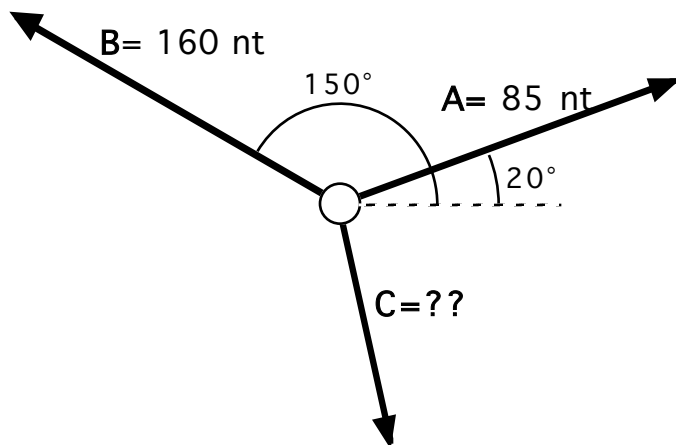
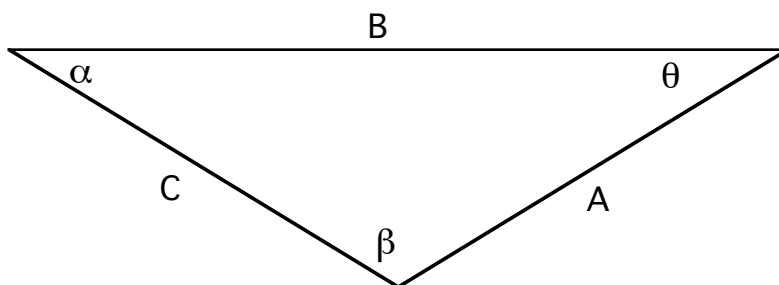


ATTACHMENT1

Showing known forces **A** and **B** acting on a stationary ring. With unknown force **C** also acting, the ring is in equilibrium.



Below is shown a polygon with sides **A**, **B** and **C**, and angles α , β , and θ to illustrate the Law of Sines and Law of Cosines.



Law of Sines:
$$\frac{A}{\sin \alpha} = \frac{B}{\sin \beta} = \frac{C}{\sin \theta}$$

Law of Cosines:
$$A^2 = B^2 + C^2 - 2 B C \cos \alpha$$

(Gives any side in terms of the opposite angle and the other two sides.)