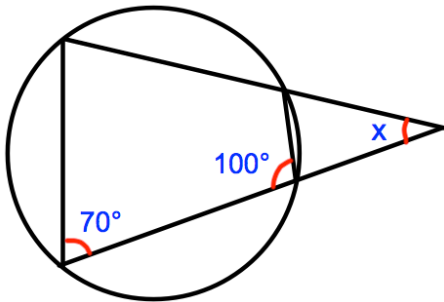




On a plane, the ratio of passengers travelling economy to business to 7:5. The ratio of passengers travelling business to first class is 4:3.

Jack says more than half the passengers are travelling economy. Is he correct?



Find x

Simplify fully

$$\frac{x^2 - 4x - 12}{x^2 - x - 30}$$

Simplify

$$\sqrt{6} \times \sqrt{27} \times \sqrt{2}$$

A shop sells two different sizes of rugby ball.



A small rugby ball has a length of 8cm and surface area of 90 cm<sup>2</sup>. A large rugby ball has a length of 16cm. Calculate the surface area of a large rugby ball.