

**10th April**

Corbettmaths

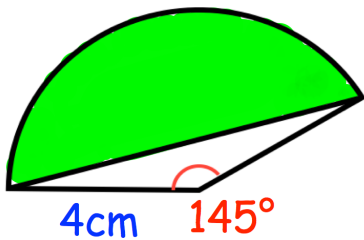
The pressure of a tyre is 32 pounds per square inch.

Given            1 pound = 0.4536 kilograms  
                      1 inch = 2.54 centimetres

Work out the pressure in grams per square centimetre.

Given  $(x + a)^2(x - 2) = x^3 + bx^2 + 12x - 72$

Find a and b



Find the area of the segment

	French	German
Female	13	15
Male	5	17

Two students are selected at random  
 Calculate the probability that the two students study different subjects.

The first 4 terms of a sequence are:

800, 790, 775, 755, ...

Which term is the first to be negative?