

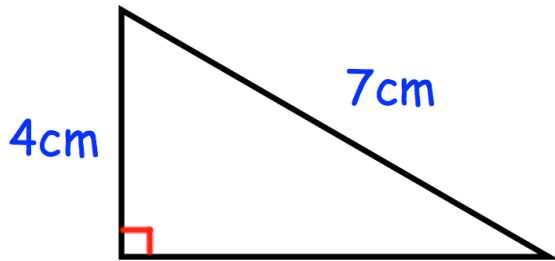


Write down the exact value of:

$$\tan 0^\circ$$

Write down the exact value of:

$$\tan 60^\circ$$



Find the area of the triangle.
Give your answer in surd form and as simply as possible

Given

$$f(x) = 2x + 3$$

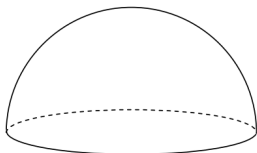
$$g(x) = 4x^2$$

Find $fg(x)$

P O L Y G O N

A tile is selected at random, it is **not replaced** and then another tile is selected.

Work out the probability that both cards are O.



The solid hemisphere shown has a radius of 3cm.
The hemisphere is made from a material with density 6.13g/cm^3 .
Calculate the mass of the hemisphere.