

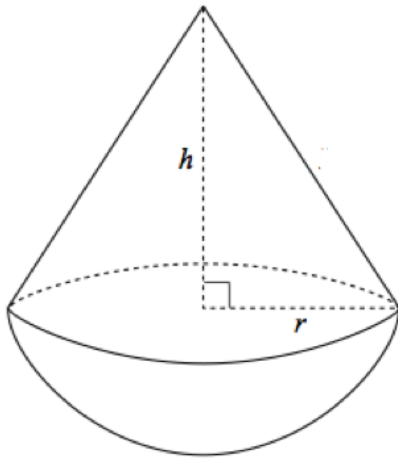
23rd December



Corbettmaths

Factorise

$$2x^2 + x - 1$$



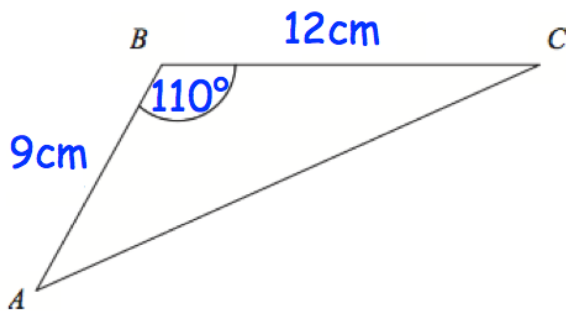
The diagram shows a solid made up of a cone and a hemisphere.

The radius of the cone is 5cm.
The height of the cone is 8cm.

Calculate the volume of the solid.

The line L passes through the points $(-4, 0)$ and $(2, -2)$
The line M passes through the points $(3, 8)$ and $(2, 2)$

Are the lines L and M perpendicular?
Show your workings



Find the area of ABC.