

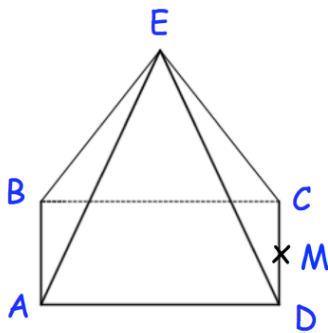
**5th March**

Corbettmaths

A circle, centre  $(-6, 4)$  has circumference  $14\pi$

Work out the equation of the circle.

Shown below is a rectangular based pyramid.  
The apex E is directly over the centre of the base of the pyramid.



AD = 8cm                      CD = 6cm  
CD = 11cm

Work out the angle between the plane CDE and plane ABCD

A curve has equation  $y = x^3 - 3x + 5$

Find the coordinates of the two stationary points and determine their nature.