

**1st July**

Corbettmaths

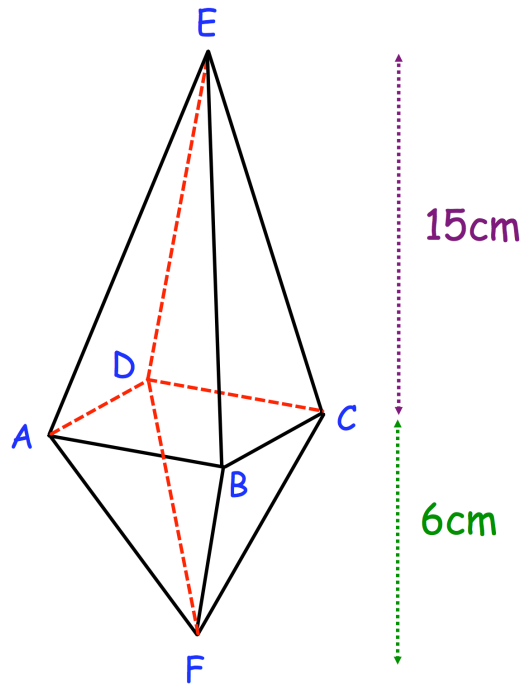
The first 4 terms of a sequence are:

204, 199, 192, 183 ... ..

Which term is the first to be negative?

ABCDE and ABCDF are square based pyramids with  $AB = 5\text{cm}$ .  
The vertex E is directly above the centre of ABCD and the vertex F is directly below the centre of ABCD.

Calculate the angle between planes BCF and BCE.



Solve

$$25^{0.25y} \times 5 = 125^{1-3y}$$

Solve  $3\sin\theta = \cos\theta$  for  
 $0^\circ \leq \theta \leq 360^\circ$