

**30th September**

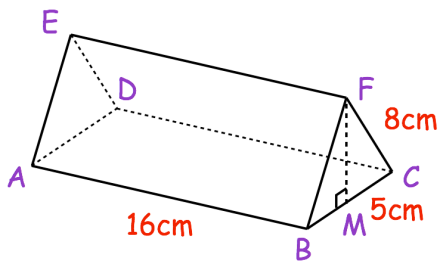
Corbettmaths

The  $n$ th term of a sequence is  $\frac{240 - 8n}{70 + 4n}$

Work out the term in the sequence that is equal to 0

Shown below is a triangular prism.

M is the midpoint of BC  
P is the point on AB such that  
 $AP : PB = 1 : 3$



Work out the size of angle DPF

Find the transformation matrix that is equivalent to

- a rotation,  $90^\circ$  clockwise about the origin

followed by

- a reflection in the line  $y = -x$