

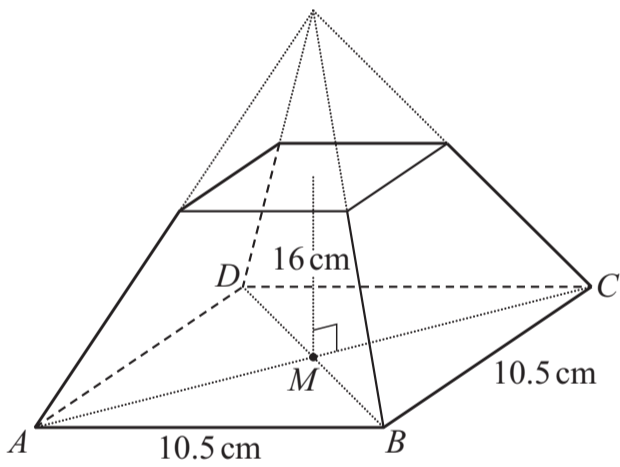
NOT TO SCALE

The diagram shows a pyramid  $OABCD$ .  
 The pyramid has a square base,  $ABCD$ , with sides 10.5 cm.  
 The vertex  $O$  is vertically above the centre of the base,  $M$ .  
 The height of the pyramid is 24 cm.

(a) Calculate the angle that  $OA$  makes with the base.

..... [4]

(b)



NOT TO SCALE

The diagram shows a frustum of the pyramid  $OABCD$ .  
 The height of the frustum is 16 cm.

Calculate the volume of the frustum.

.....  $\text{cm}^3$  [5]