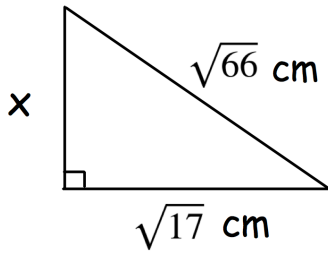
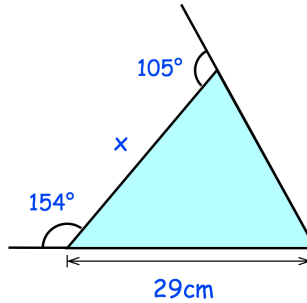




Find x



Find the length of the side, x.

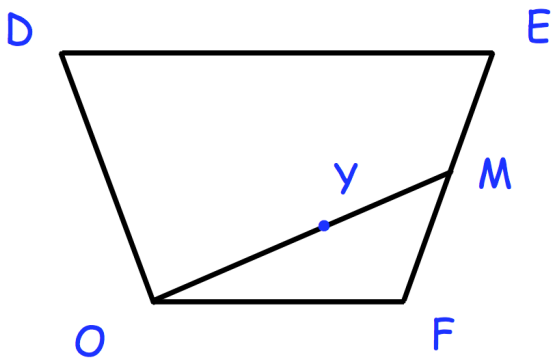


Factorise

$$2x^2 + 11xy + 15y^2$$

ODEF is a quadrilateral

$$\overrightarrow{OD} = \mathbf{a} \quad \overrightarrow{OF} = \mathbf{b} \quad \overrightarrow{DE} = 2\mathbf{b}$$



$M$  is the midpoint of  $EF$   
 $Y$  is a point on  $OM$  such that  $OY:YM = n : 1$   
 $DYF$  is a straight line.

Work out the value of  $n$