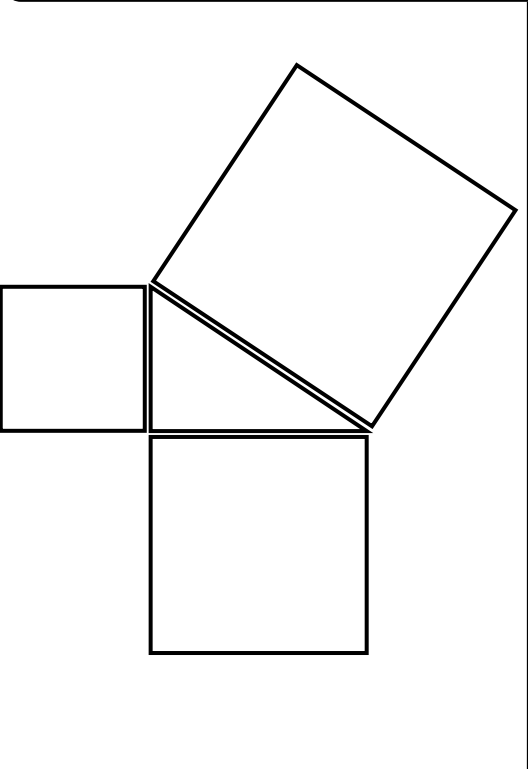
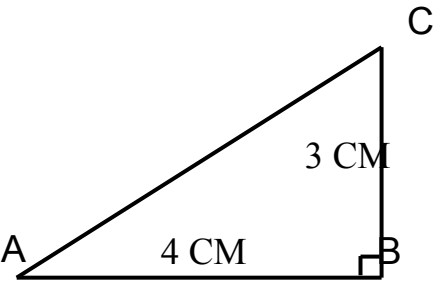


In the right angled triangle  
The area of the square on the hypotenuse = the sum of The areas of the squares on the other sides

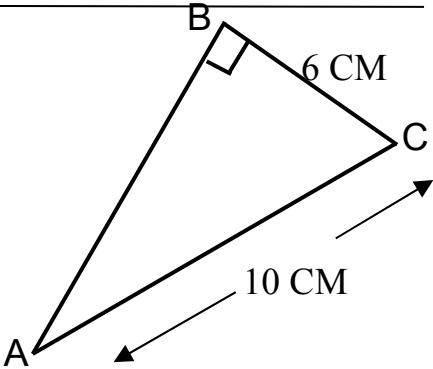


In the opposite figure:

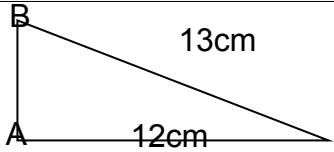
Find the length  $\overline{AC}$



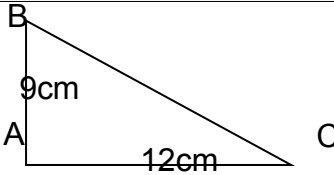
Find the length  $\overline{AB}$



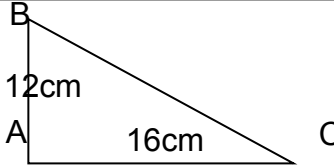
Find the length AB



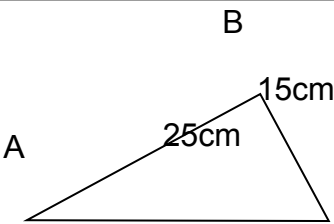
Find the length BC



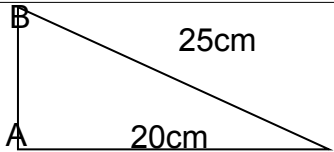
Find the length BC



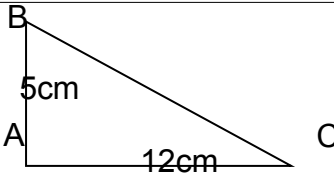
Find the length AB

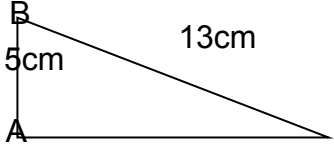
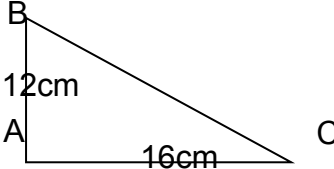
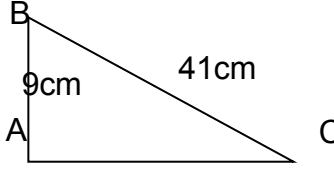
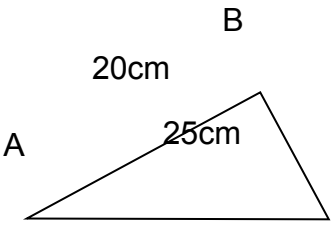
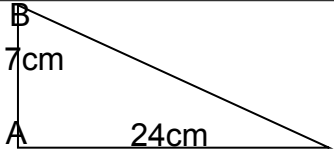
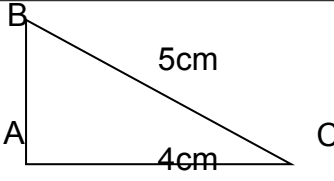


Find the length AB

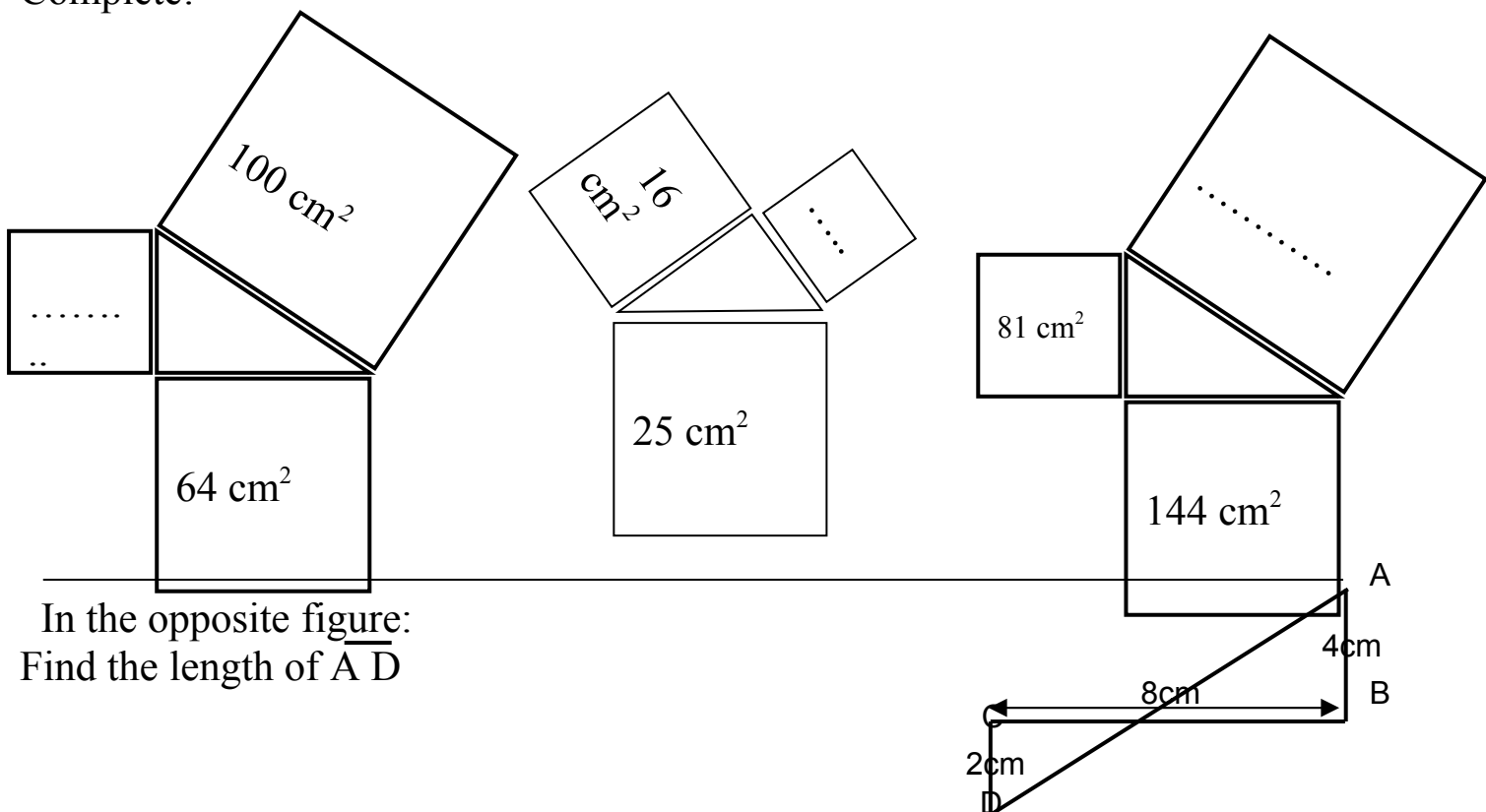


Find the length BC



Find the length AC		Find the length BC	
Find the length AC		Find the length BC	
Find the length BC		Find the length BC	

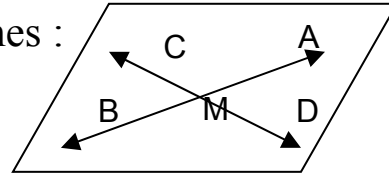
Complete:



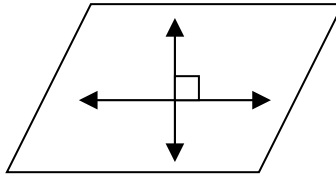
## Relative positions of two straight line in space

(1) The two intersecting straight lines :

- They have a common point
- They lie in the same plane

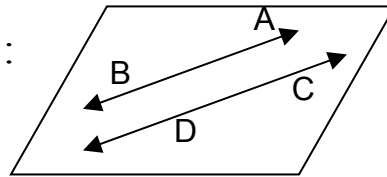


The two perpendicular straight lines are two intersecting straight lines with a right angle between them



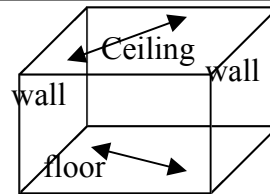
(2) The two parallel straight lines :

- They have no common point
- They lie in the same plane



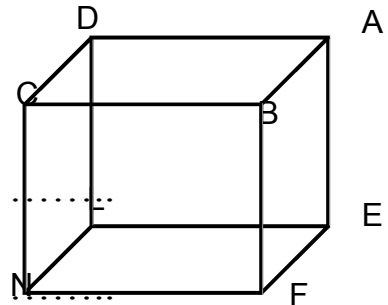
(3) The two skew straight lines :

- They have no common point
- They don't lie in the same plane



Example :in the opposite figure :

complete by writing parallel , intersecting or skew



- (1) The two straight lines  $\overleftrightarrow{BC}$  and  $\overleftrightarrow{FN}$  are .....
- (2) The two straight lines  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{LE}$  are .....
- (3) The two straight lines  $\overleftrightarrow{BC}$  and  $\overleftrightarrow{CD}$  are .....
- (4) The two straight lines  $\overleftrightarrow{NL}$  and  $\overleftrightarrow{DA}$  are .....
- (5) The two straight lines  $\overleftrightarrow{NL}$  and  $\overleftrightarrow{CD}$  are .....
- (6) The two straight lines  $\overleftrightarrow{FE}$  and  $\overleftrightarrow{AE}$  are .....
- (7) The two straight lines  $\overleftrightarrow{FE}$  and  $\overleftrightarrow{CD}$  are .....
- (8) The two straight lines  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{NL}$  are .....
- (9) The two straight lines  $\overleftrightarrow{CD}$  and  $\overleftrightarrow{LE}$  are .....