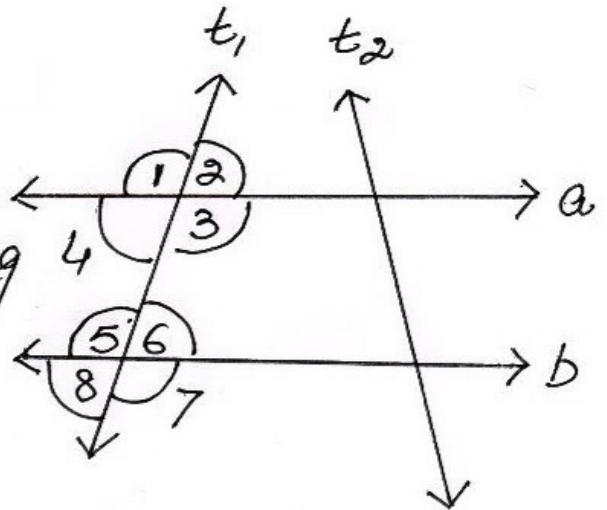


i)  $a \parallel b$

$\angle 1 = \angle 5$  (corresponding  $\angle$ s)



ii)  $\angle 4 = \angle 6$

But these are alternate interior  $\angle$ s

$\therefore a \parallel b$

iii)  $\angle 4 + \angle 5 = 180^\circ$

$\Rightarrow a \parallel b$  [ $\because \angle 4$  and  $\angle 5$  are co-interior  $\angle$ s]

2) i)  $\angle 1, \angle 5$

$\angle 2, \angle 6$

$\angle 4, \angle 8$

$\angle 3, \angle 7$

ii)  $\angle 3, \angle 5$

$\angle 2, \angle 8$

iii)  $\angle 2, \angle 5$

$\angle 3, \angle 8$

iv)  $\angle 1, \angle 3$

$\angle 2, \angle 4$

$\angle 5, \angle 7$

$\angle 6, \angle 8$

