

Ex 5.1

5.

let angle = x°
 its supplement = x°

acc. to condition

$$x + x = 180^\circ$$

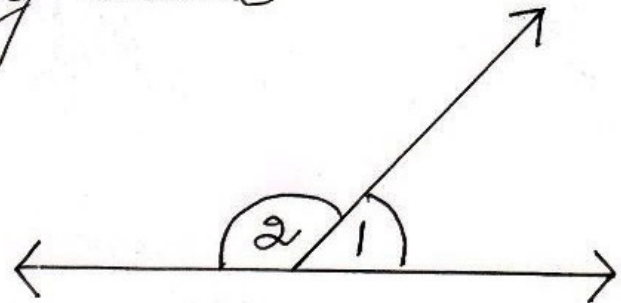
$$\Rightarrow 2x = 180$$

$$\Rightarrow x = \frac{180}{2} = 90^\circ$$

$$\Rightarrow x = 90^\circ$$

required angle = 90°

6. If $\angle 1$ is decreased,
 $\angle 2$ increases by same
 measure



eg. let $\angle 1 = 60^\circ$, $\angle 2 = 120^\circ$

if $\angle 1$ reduces by 10°

$$\Rightarrow \angle 1 = 60 - 10 = 50$$

$$\angle 2 = 180 - 50 = 130^\circ$$

it increases by $130 - 120 = 10^\circ$