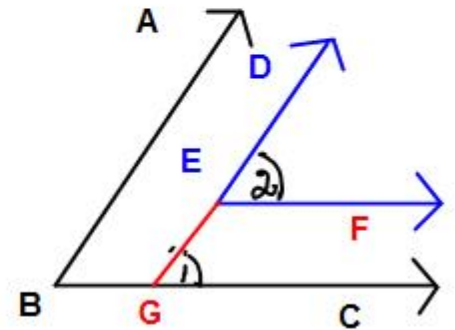


NCERT Exempar Solutions by Dev Anoop (Bathinda)

⑤ given - In fig  $AB \parallel DE$ ,  
 $EF \parallel BC$   
 to prove -  $\angle ABC = \angle DEF$



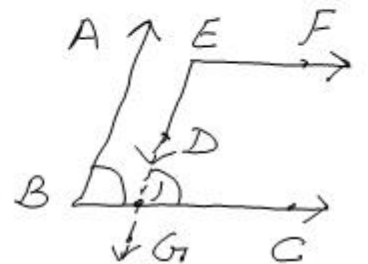
const - produce DE to intersect BC at G

proof  $EF \parallel BC$   
 $\therefore \angle 2 = \angle 1$  (corresponding  $\angle$ s)  
 $AB \parallel DG$  (do)  
 But  $\angle B = \angle 1$  (do)

$$\therefore \angle B = \angle 2$$

$$\angle ABC = \angle DEF$$

⑥ given - In fig  $BA \parallel ED$ ,  
 $BC \parallel EF$   
 to show  $\angle ABC + \angle DEF = 180^\circ$



const - produce ED to intersect BC at G

proof -  $BA \parallel EG$ ,  $\angle B = \angle 1$  (corres.  $\angle$ s)  
 But  $BC \parallel EF$ ,  $\angle 1 + \angle E = 180^\circ$  (co  $\angle$ s)

$$\angle ABC + \angle DEF = 180^\circ$$