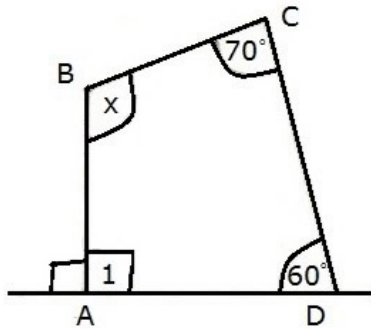


6b



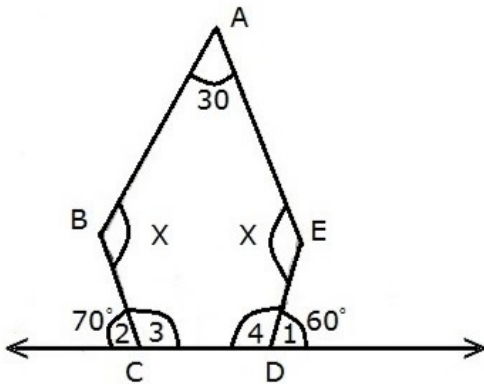
In  $\square ABCD$   
 $\angle A + \angle B + \angle C + \angle D = 360^\circ$  (angle sum prop. of  $\square$ )  
 $90^\circ + x + 70^\circ + 60^\circ = 360^\circ$

$$\Rightarrow 220^\circ + x = 360^\circ$$

$$\Rightarrow x = 360 - 220$$

$$\Rightarrow x = 140^\circ$$

6c



$$\angle 2 + \angle 3 = 180^\circ \text{ (linear pair)}$$

$$70 + \angle 3 = 180^\circ$$

$$\Rightarrow \angle 3 = 180 - 70 = 110^\circ$$

$$\angle 1 + \angle 4 = 180^\circ \text{ (do)}$$

$$60 + \angle 4 = 180^\circ$$

$$\Rightarrow \angle 4 = 180 - 60 = 120^\circ$$

In  $\square ABCDE$   
 $\angle A + \angle B + \angle C + \angle D + \angle E = 360^\circ$   
 [angle sum prop. of pentagon.]

$$30^\circ + x + 110 + 120 + x = 360$$

$$\Rightarrow 2x + 260 = 360$$

$$\Rightarrow 2x = 360 - 260$$

$$\Rightarrow x = \frac{100}{2} = 50$$

$$\Rightarrow x = 50$$