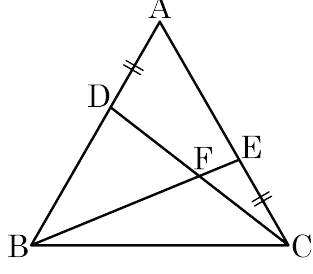


1. 정삼각형 ABC 에서 $\overline{AD} = \overline{CE}$ 이고, $\triangle FBC = 45\text{cm}^2$ 이다. □ADFE 의 넓이는?



- ① 35cm^2 ② 40cm^2 ③ 45cm^2
④ 50cm^2 ⑤ 55cm^2

해설

$\triangle ADC$ 와 $\triangle CEB$ 에서
 $\overline{AC} = \overline{CB}, \overline{AD} = \overline{CE}, \angle DAC = \angle ECB = 60^\circ$
 $\therefore \triangle ADC \equiv \triangle CEB$ (SAS합동)
 $\triangle ADC = \triangle CEB$
 $\square ADFE + \triangle FCE = \triangle FBC + \triangle FCE$
 $\therefore \square ADFE = \triangle FBC = 45 (\text{cm}^2)$