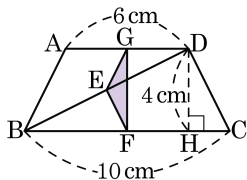


1. 사다리꼴 ABCD 에서 점 G, E, F 는 각각 $\overline{AD}$, $\overline{BD}$, $\overline{BC}$ 의 중점이다. $\triangle GEF$ 의 넓이를 구하면?



① 1 cm^2

② 2 cm^2

③ 3 cm^2

④ 4 cm^2

⑤ 5 cm^2

해설

$$\square ABFG = (3 + 5) \times 4 \times \frac{1}{2} = 16(\text{cm}^2)$$

$$\square ABEG = \frac{3}{4} \triangle ABD = \frac{3}{4} \times \frac{1}{2} \times 6 \times 4 = 9(\text{cm}^2)$$

$$\triangle BEF = \frac{1}{4} \triangle BDC = \frac{1}{4} \times \frac{1}{2} \times 10 \times 4 = 5(\text{cm}^2)$$

$$\begin{aligned} \therefore \triangle GEF &= \square ABFG - (\square ABEG + \triangle BEF) \\ &= 16 - (9 + 5) = 2(\text{cm}^2) \end{aligned}$$