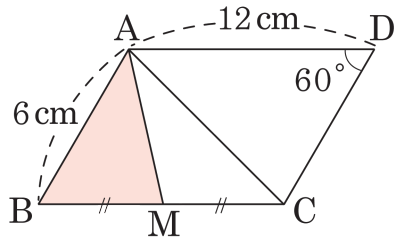


1. 다음 그림과 같은 평행사변형 ABCD 에서 $\overline{BC}$ 의 중점을 M 이라 할 때, $\triangle ABM$ 의 넓이를 구하면?



- ① $9\sqrt{2}\text{ cm}^2$ ② $9\sqrt{3}\text{ cm}^2$ ③ $10\sqrt{2}\text{ cm}^2$
 ④ $10\sqrt{3}\text{ cm}^2$ ⑤ 10 cm^2

해설

$$\begin{aligned} \square ABCD &= 12 \times 6 \times \sin 60^\circ \\ &= 12 \times 6 \times \frac{\sqrt{3}}{2} \\ &= 36\sqrt{3} \text{ (cm}^2\text{)} \end{aligned}$$

$$\begin{aligned} \therefore \triangle ABM &= \frac{1}{4} \square ABCD \\ &= \frac{1}{4} \times 36\sqrt{3} \\ &= 9\sqrt{3} \text{ (cm}^2\text{)} \end{aligned}$$