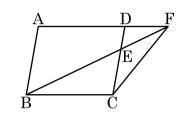
1. 다음 그림과 같은 평행사변형 ABCD에서 \overline{DE} : $\overline{EC}=1:2$ 일 때, $\Delta ADE + \Delta FEC$ 의 값은 평행사변형 ABCD의 넓이의 몇 배인가?



①
$$\frac{1}{2}$$
 배
④ $\frac{1}{7}$ 배



$$3\frac{1}{5}$$
 #

$$\triangle BCE = 1:2$$

$$\triangle ADE = \triangle ACD \times \frac{1}{1+2} = \frac{1}{2} \Box ABCD \times \frac{1}{3} = \frac{1}{6} \Box ABCD$$

$$\triangle BCE = 2\triangle ADE = \frac{1}{3}\Box ABCD$$

$$\overline{\mathrm{AF}} /\!/ \overline{\mathrm{BC}}$$
이므로 $\Delta \mathrm{FBC} = \Delta \mathrm{DBC} = \frac{1}{2} \square \mathrm{ABCD}$

$$\triangle FEC = \triangle FBC - \triangle BCE = \left(\frac{1}{2} - \frac{1}{3}\right) \times \square ABCD$$

$$= \frac{1}{6} \square ABCD$$

$$\therefore \triangle ADE + \triangle FEC = \frac{1}{3} \square ABCD$$