

三角形の角 2

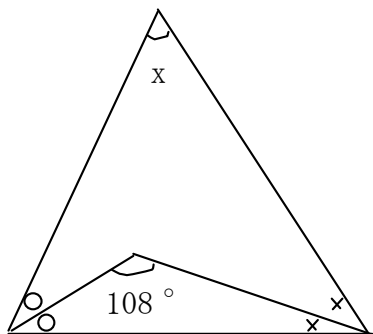
NO 2

名前 _____

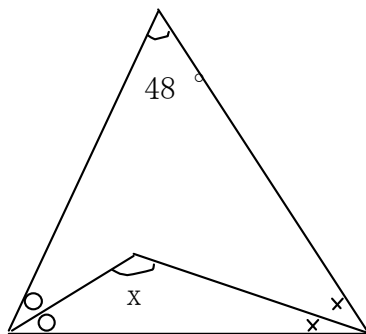
／5 点

1 次の図で $\angle x$ をもとめなさい。 (\circ 、 \times は同じ大きさの角度)

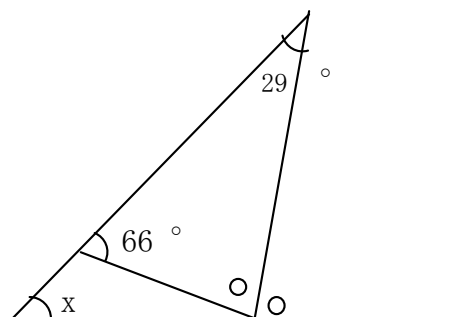
①



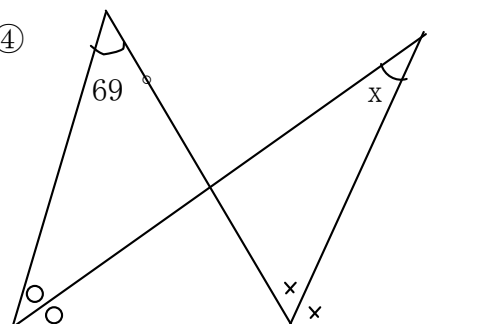
②



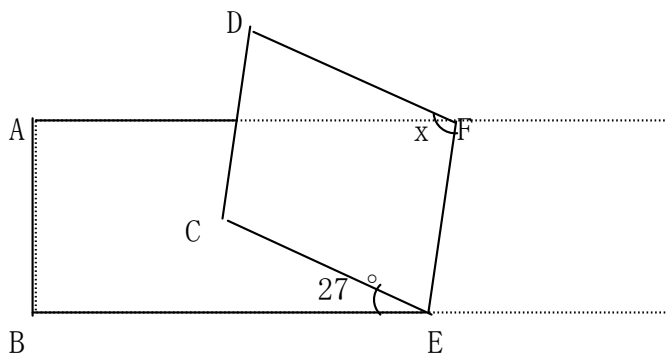
③



④



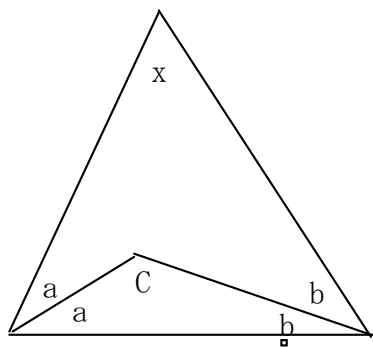
⑤



長方形ABCDを線分EFを折り目として折り返した。

解答

①



$$a+b+C= 180^\circ$$

$$2a+2b+x= 180^\circ$$

$$a+b = 180 - 108 = 72$$

$$\begin{aligned} x &= 180 - 2(a+b) \\ &= 180 - 144 = \underline{36^\circ} \end{aligned}$$

② ①より $2(a+b) = 180 - 48 = 132$

$$a+b = 66$$

$$x = 180 - 66 = \underline{114^\circ}$$

③ $180 - (66 + 29) = 85 \leftarrow \bigcirc$

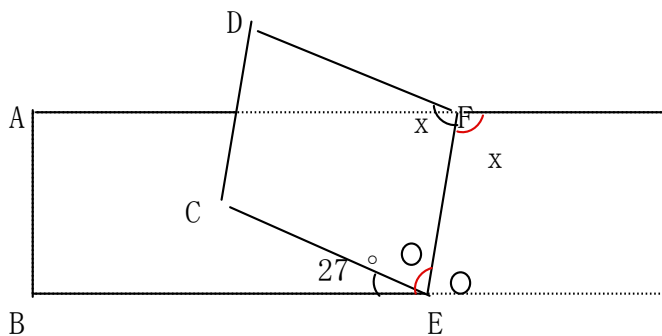
$$x = 85 - 29 = \underline{56^\circ}$$

④ $x + \bigcirc = \times$

$$2 \times = 69 + 2 \bigcirc$$

$$\times = 35 + \bigcirc \quad \underline{x = 35^\circ}$$

⑤



$$x = 27 + \bigcirc \quad \bigcirc = (180 - 27) \div 2 = 76.5$$

$$x = 27 + 76.5 = 103.5^\circ$$