

三角形の角 2

NO 1

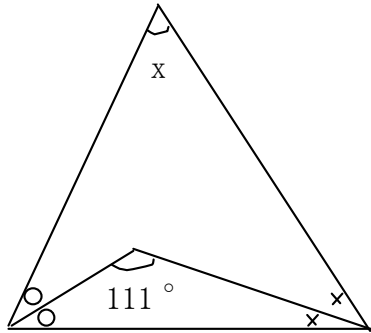
名前

／5 点

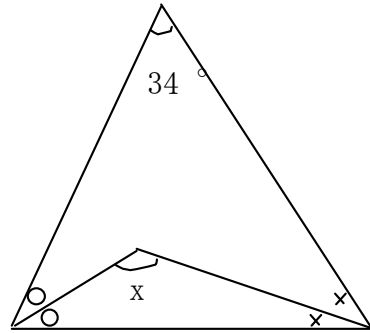
1 次の図で $\angle x$ をもとめなさい。

(\circ 、 \times は同じ大きさの角度)

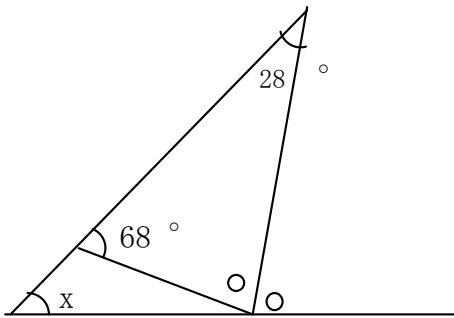
①



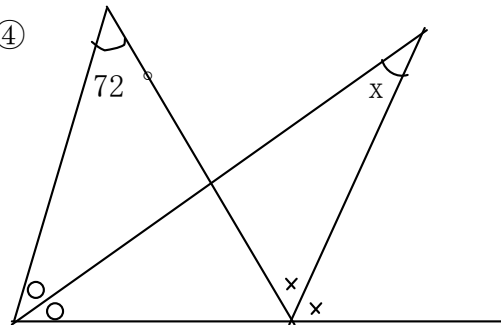
②



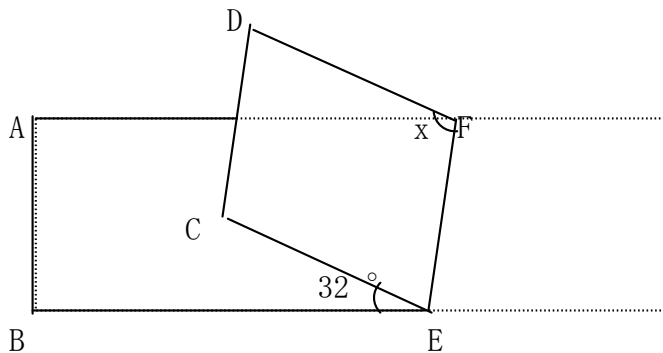
③



④



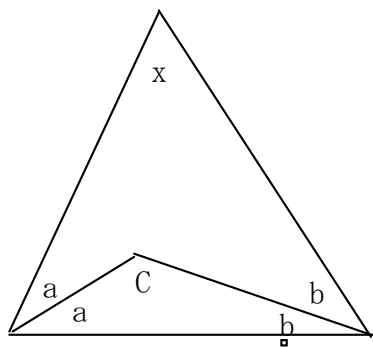
⑤



長方形ABCDを線分EFを折り目として折り返した。

解答

①



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

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

$$a+b = 180 - 111 = 69$$

$$\begin{aligned} x &= 180 - 2(a+b) \\ &= 180 - 138 = \underline{42^\circ} \end{aligned}$$

② ①より $2(a+b) = 180 - 34 = 146$

$$a+b = 73$$

$$x = 180 - 73 = \underline{107^\circ}$$

③ $180 - (68 + 28) = 84 \leftarrow \bigcirc$

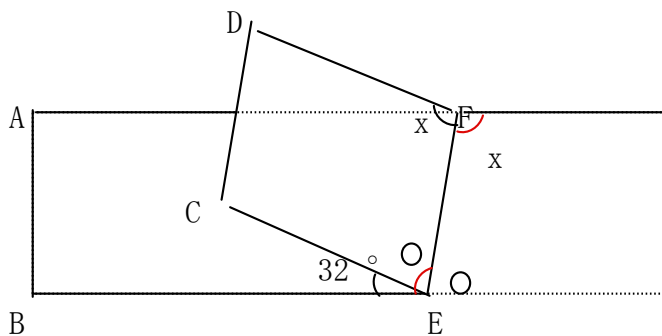
$$x = 84 - 28 = \underline{56^\circ}$$

④ $x + \bigcirc = \times$

$$2 \times = 72 + 2 \bigcirc$$

$$\times = 36 + \bigcirc \quad \underline{x = 36^\circ}$$

⑤



$$x = 32 + \bigcirc \quad \bigcirc = (180 - 32) \div 2 = 74$$

$$x = 32 + 74 = 106^\circ$$