

<第11回 解答と解説>

1 (1) $\angle x = 42^\circ$ (2) $\angle x = 15^\circ$ (3) $\angle x = 150^\circ$

(4) $\angle x = 105^\circ$ (5) $\angle x = 126^\circ$ (6) $\angle x = 71^\circ$

2 $\angle x = 72^\circ$, $\angle y = 108^\circ$

3 $\angle x = 110^\circ$

解説

1 (1) Cを通る l に平行な直線をひくと, 2つの錯角で, $18^\circ + \angle x = 60^\circ$

(2) 同位角は等しいから,

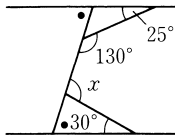
$$130^\circ - 25^\circ = \angle x + 90^\circ$$

(3) $\angle x = 50^\circ + (180^\circ - 80^\circ)$

(4) $180^\circ - 130^\circ = 50^\circ$

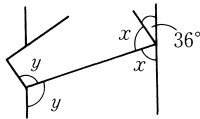
$$25^\circ + 50^\circ = 75^\circ (\bullet)$$

$$\angle x = 30^\circ + 75^\circ = 105^\circ$$



2 $2\angle x + 36^\circ = 180^\circ$

$$\angle y = 36^\circ + \angle x$$



3 四角形の外角の和を考えると,

$$\angle x + 2(180^\circ - 80^\circ) + 50^\circ = 360^\circ$$