



$$a) \quad \begin{aligned} x &= u \\ y &= z \end{aligned}$$

$$2x + 2y = 360^\circ$$

$$y = 5x$$

$$2x + 2 \cdot 5x = 360^\circ$$

$$2x + 10x = 360^\circ$$

$$12x = 360^\circ$$

$$x = 30^\circ$$

$$x = 30^\circ \quad y = 5 \cdot 30^\circ = 150^\circ$$

$$u = 30^\circ \quad z = 150^\circ$$

$$b) \quad z + y = x + u + 80^\circ$$

$$2y = 2x + 80^\circ$$

$$\begin{cases} y = x + 80^\circ \\ x + y = 180^\circ \end{cases}$$

$$x + x + 80^\circ = 180^\circ$$

$$x + x + 80^\circ = 180^\circ$$

$$2x = 180^\circ - 80^\circ$$

$$2x = 100^\circ$$

$$x = 50^\circ$$

$$x = 50^\circ \quad y = x + 80^\circ = 50^\circ + 80^\circ = 130^\circ$$

$$u = 50^\circ \quad z = 130^\circ$$