

5. let the other acute angle be x°
 $90^\circ + 36^\circ + x^\circ = 180^\circ$ (angle sum prop of Δ)
 $\Rightarrow x = 180 - 126$
 $= 54^\circ$

6. let acute angles of right Δ be $2x^\circ, x^\circ$
 $90 + 2x + x = 180$ (angle sum prop of Δ)
 $\Rightarrow 3x = 180 - 90$
 $\Rightarrow x = \frac{90}{3} = 30^\circ$

\therefore acute angles are $2 \times 30 = 60^\circ$
 30°

7. let each equal angle = x°
 $100^\circ + x^\circ + x^\circ = 180^\circ$ (angle sum prop. of Δ)
 $\Rightarrow 2x = 180 - 100$
 $\Rightarrow x = \frac{80}{2} = 40^\circ$

\therefore each equal angle = 40°

8. let third angle = x°
 each equal angle = $2x^\circ$
 $x + 2x + 2x = 180$ (angle sum prop of Δ)
 $\Rightarrow 5x = 180 - 36$
 \therefore third angle = $x = 36^\circ$
 each equal angle = $2x = 2 \times 36 = 72^\circ$