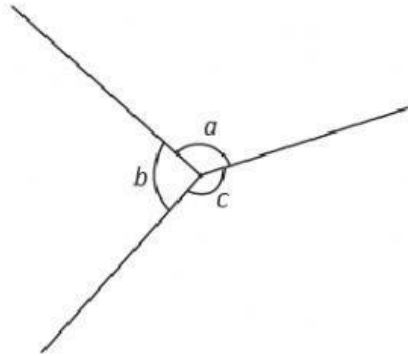


Practice 2 Angles at a Point

1. In each of the figures below, the lines meet at a point. Using a protractor, measure and find each unknown marked angle.

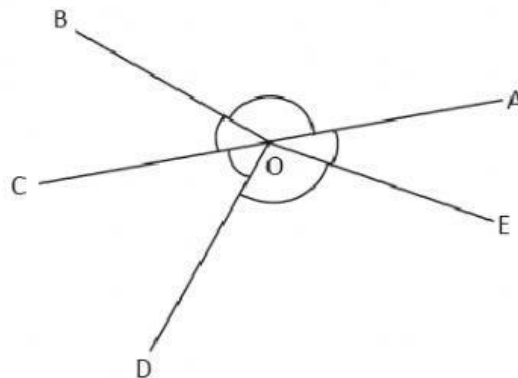
(a)



$$\begin{aligned}\angle a &= \boxed{}^\circ \\ \angle b &= \boxed{}^\circ \\ \angle c &= \boxed{}^\circ\end{aligned}$$

$$\begin{aligned}\angle a + \angle b + \angle c &= \boxed{}^\circ + \boxed{}^\circ + \boxed{}^\circ \\ &= \boxed{}^\circ\end{aligned}$$

(b)

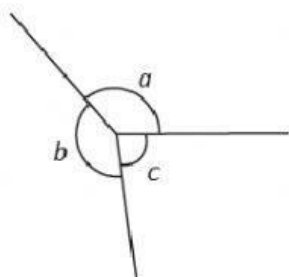


$$\begin{aligned}\angle AOB &= \boxed{}^\circ \\ \angle BOC &= \boxed{}^\circ \\ \angle COD &= \boxed{}^\circ \\ \angle DOE &= \boxed{}^\circ \\ \angle EOA &= \boxed{}^\circ\end{aligned}$$

$$\begin{aligned}\angle AOB + \angle BOC + \angle COD + \angle DOE + \angle EOA &= \boxed{}^\circ + \boxed{}^\circ + \boxed{}^\circ + \boxed{}^\circ + \boxed{}^\circ \\ &= \boxed{}^\circ\end{aligned}$$

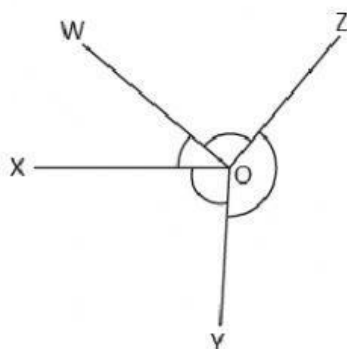
2. Name the angles at a point that have a sum of 360° .

(a)



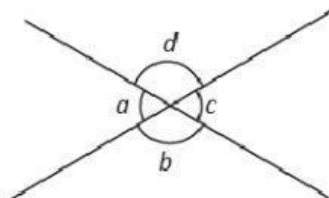
$$\angle \boxed{} + \angle \boxed{} + \angle \boxed{} = 360^\circ$$

(b)



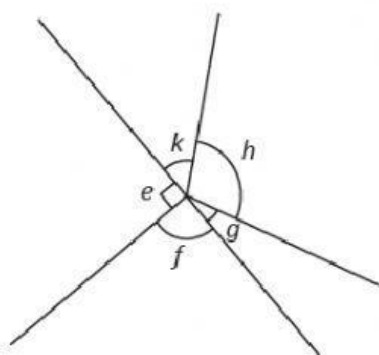
$$\angle \boxed{} + \angle \boxed{} + \angle \boxed{} + \angle \boxed{} = 360^\circ$$

(c)



$$\underline{\angle a + \angle b + \angle c + \angle d} = 360^\circ$$

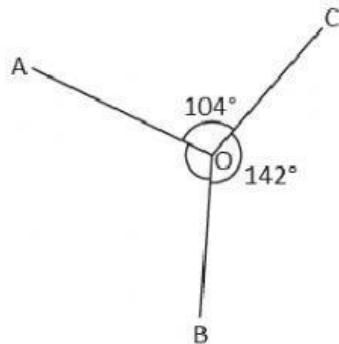
(d)



$$\angle \boxed{} + \angle \boxed{} + \angle \boxed{} + \angle \boxed{} + \angle \boxed{} + \angle \boxed{} = 360^\circ$$

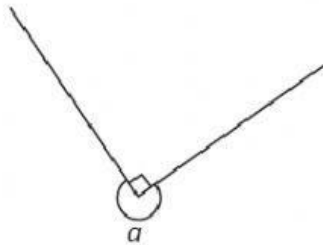
3. Find the unknown marked angles.

(a) Find $\angle AOB$.



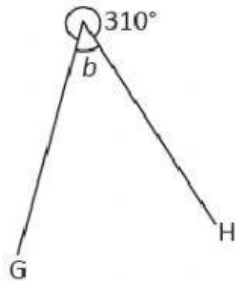
$$\begin{aligned}\angle AOB &= 360^\circ - 104^\circ - 142^\circ \\ &= 114^\circ\end{aligned}$$

(b) Find $\angle a$.



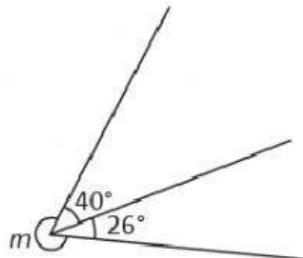
$$\angle a = \boxed{}$$

(c) Find $\angle b$.



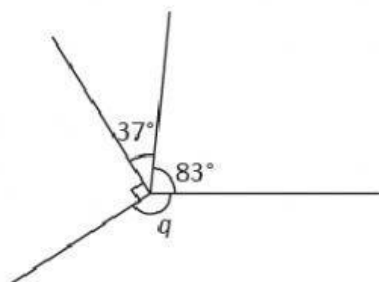
$$\angle b = \boxed{}$$

(d) Find $\angle m$.



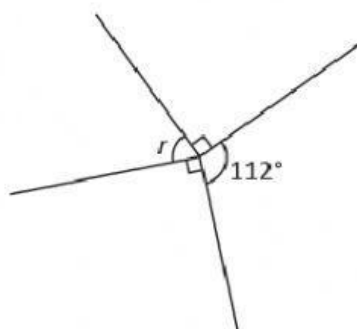
$$\angle m = \boxed{}$$

(e) Find $\angle q$.



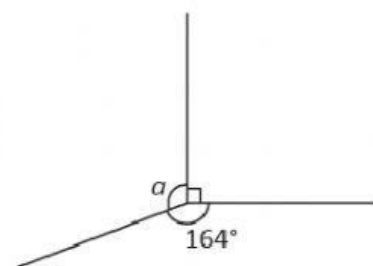
$$\angle q = \boxed{}$$

(f) Find $\angle r$.



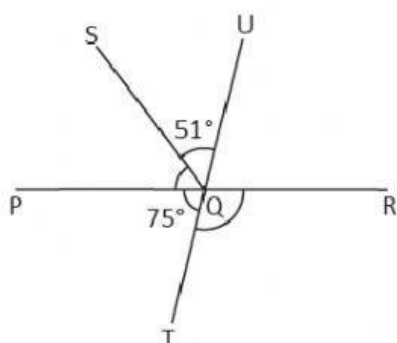
$$\angle r = \boxed{}$$

(g) Find $\angle a$.



$$\angle a = \boxed{}$$

4. PQR and TQU are straight lines.
Find $\angle PQS$ and $\angle TQR$.



$$\begin{aligned}\angle PQS &= 180^\circ - 75^\circ - 51^\circ \\ &= 54^\circ\end{aligned}$$

$$\begin{aligned}\angle TQR &= 180^\circ - 75^\circ \\ &= 105^\circ\end{aligned}$$