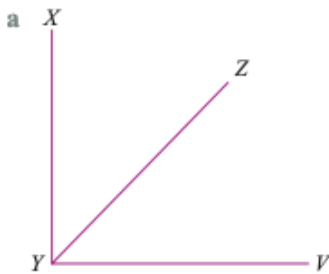


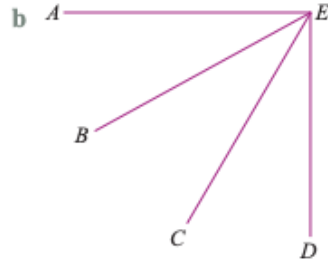
Investigation 1 Types of angles

Measure each angle as stated in Sets A, B and C. Find the total of angles in each set. State what type of angle is formed in each set.

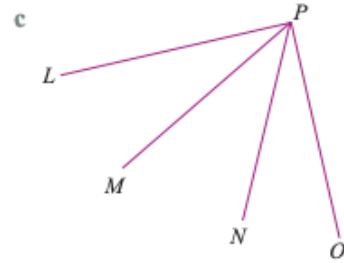
Set A



$$\begin{aligned} \angle XYZ &= ______ \\ \angle ZYV &= ______ \\ \therefore \angle XYV &= ______ \end{aligned}$$



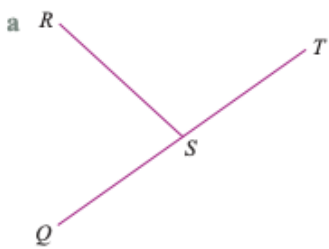
$$\begin{aligned} \angle AEB &= ______ \\ \angle BEC &= ______ \\ \angle CED &= ______ \\ \therefore \angle AED &= ______ \end{aligned}$$



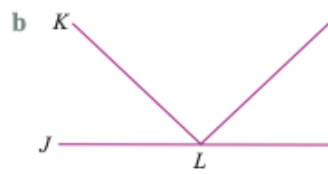
$$\begin{aligned} \angle LPM &= ______ \\ \angle MPN &= ______ \\ \angle NPO &= ______ \\ \therefore \angle LPO &= ______ \end{aligned}$$

Type of angle formed in Set A: _____

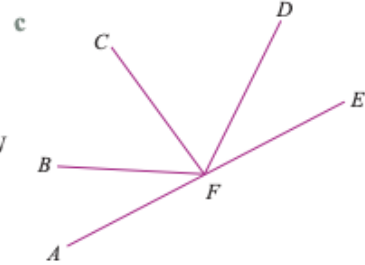
Set B



$$\begin{aligned} \angle QSR &= ______ \\ \angle RST &= ______ \\ \therefore \angle QST &= ______ \end{aligned}$$



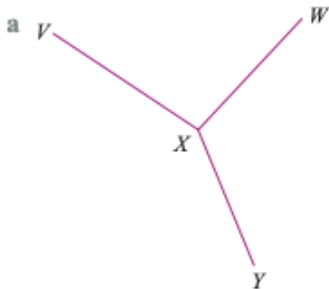
$$\begin{aligned} \angle JLK &= ______ \\ \angle KLM &= ______ \\ \angle MLN &= ______ \\ \therefore \angle JLN &= ______ \end{aligned}$$



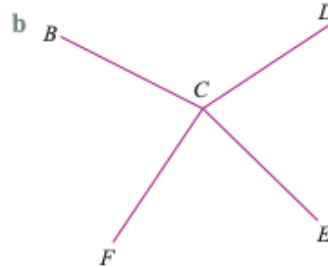
$$\begin{aligned} \angle AFB &= ______ \\ \angle BFC &= ______ \\ \angle CFD &= ______ \\ \angle DFE &= ______ \\ \therefore \angle AFE &= ______ \end{aligned}$$

Type of angle formed in Set B: _____

Set C

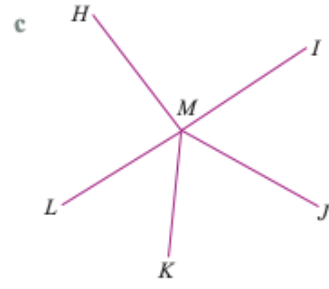


$$\begin{aligned} \angle VXW &= ______ \\ \angle WXY &= ______ \\ \angle YXV &= ______ \\ \therefore \text{Total of angles} &= ______ \end{aligned}$$



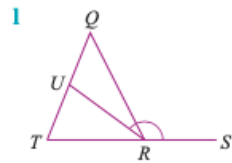
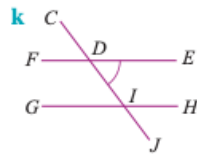
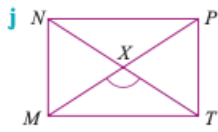
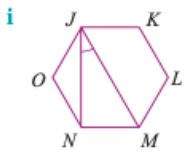
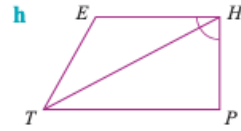
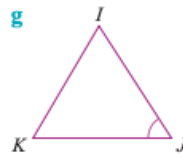
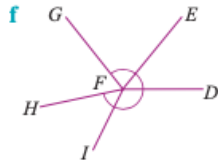
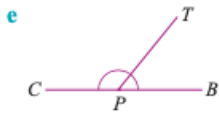
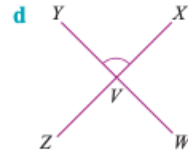
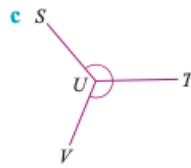
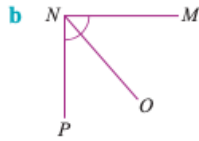
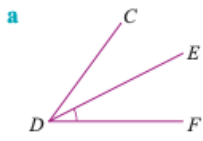
$$\begin{aligned} \angle BCD &= ______ \\ \angle DCE &= ______ \\ \angle ECF &= ______ \\ \angle FCB &= ______ \\ \therefore \text{Total of angles} &= ______ \end{aligned}$$

Type of angle formed in Set C: _____

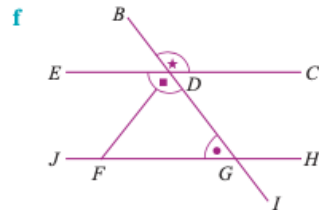
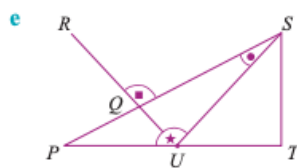
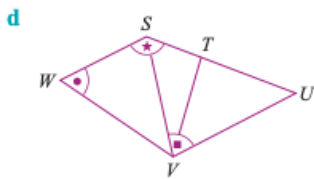
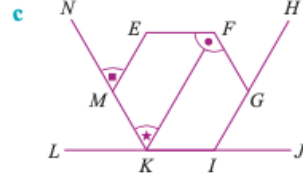
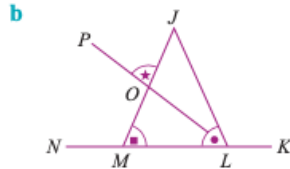
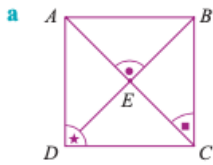


$$\begin{aligned} \angle HMI &= ______ \\ \angle IMJ &= ______ \\ \angle JMK &= ______ \\ \angle KML &= ______ \\ \angle LMH &= ______ \\ \therefore \text{Total of angles} &= ______ \end{aligned}$$

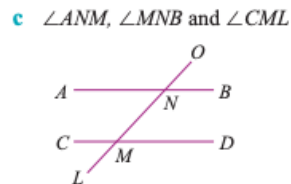
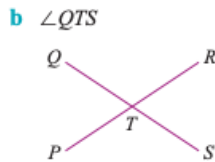
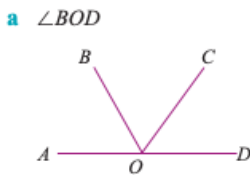
3 Name the marked angles.



4 Name the angles marked \bullet , \star or \blacksquare , using the nearest letters.



5 Copy these diagrams and mark the angles named.



6 Name the pairs of equal angles in the following diagrams. (Equal angles have identical markings on them.)

