9 Class Math Tuition Assignment

Assignment – 6

Assigned To = **Mradul Tiwari , Yuvraj Singh Tomar , Sachin Baghel, Mohit Pathak**

Chapter = Lines and Angles

Submission Date = 30 July 2022   MM = 30

Q1. If an angle is 30° more than one half of its complement, find the measure of the angle?

Q2. Two supplementary angles are in the ratio 4:5. Find the angles?

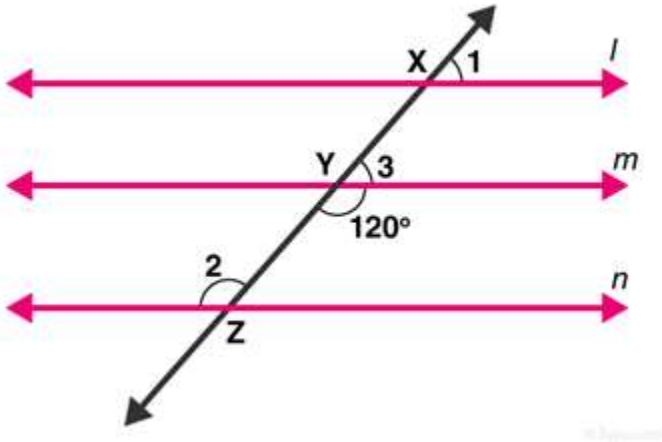**Q3.** Two supplementary angles differ by 48^0. Find the angles?

Q4. An angle is equal to 8 times its complement. Determine its measure?

Q5. In figure, rays OA, OB, OC, OD and OE have the common end point 0. Show that ∠AOB+∠BOC+∠COD+∠DOE+∠EOA=360°.
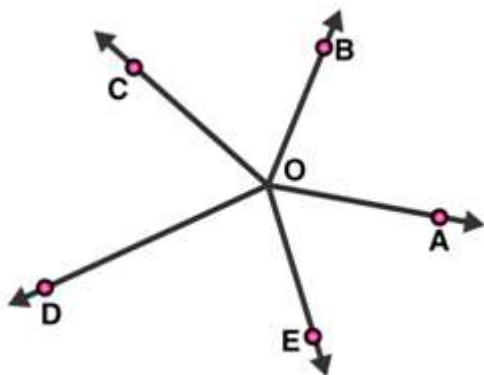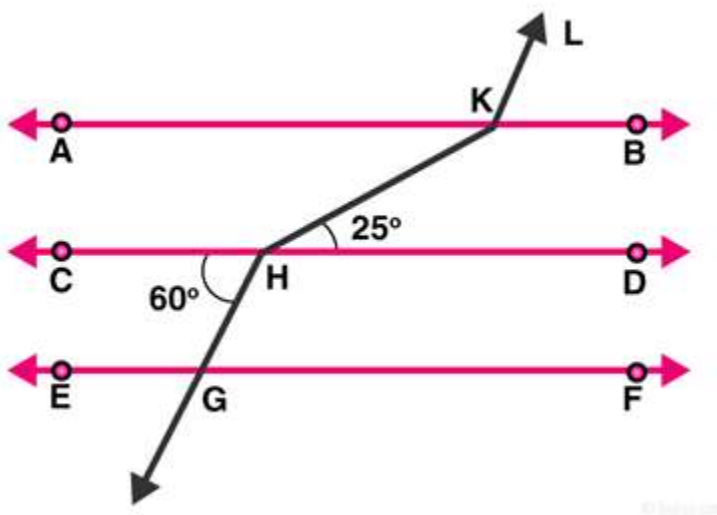
9 Class Math Tuition Assignment

Q6. In figure, I, m and n are parallel lines intersected by transversal p at X, Y and Z respectively. Find ∠1, ∠2 and ∠3.

Q7. In figure, AB || CD || EF and GH || KL. Find ∠HKL.
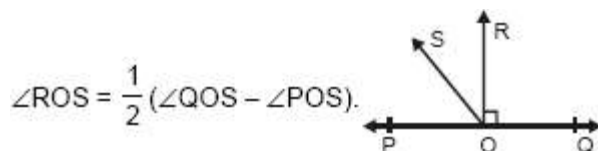
9 Class Math Tuition Assignment

Q8. In figure, show that AB || EF.
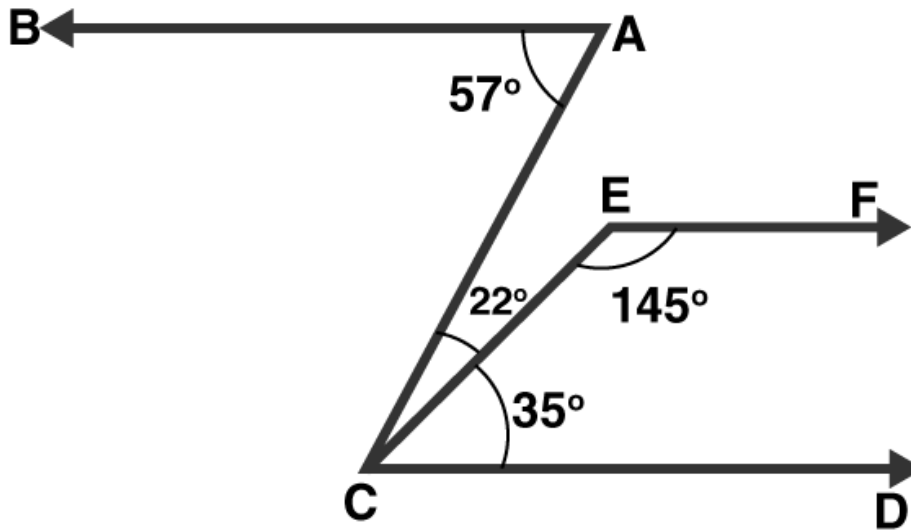
Q9. In the given figure, POQ is a line. Ray $\overline{OR} \perp PQ$, $\overline{OS}$ is another ray lying between rays $\overline{OP}$ and $\overline{OR}$. Prove that

$$\angle ROS = \frac{1}{2}(\angle QOS - \angle POS).$$

Q10. n the given figure, lines Ab, CD and EF intersect at O.
Find the measure of ∠AOC, ∠COF.