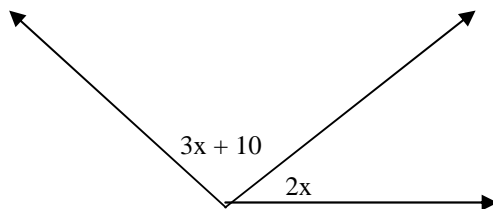


Class : IX

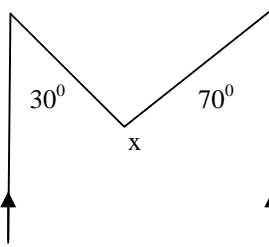
Subject : Mathematics

Assignment 5: Lines and Angles

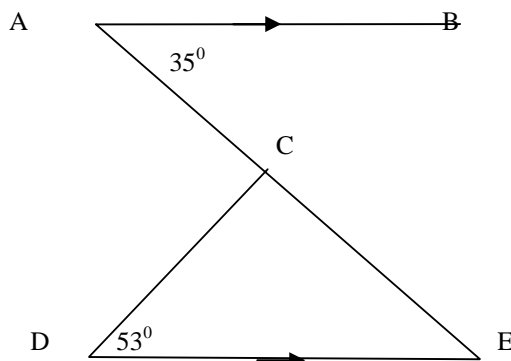
1. An angle is 14° more than its complementary angle. What is its measure?
2. If the supplement of an angle is three times its complement, find the angle.
3. What value of x will make POQ a line?



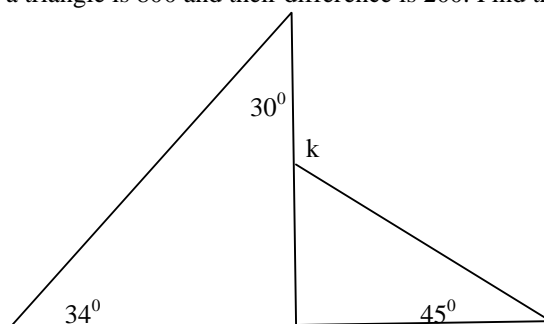
4. In the given figure, $AB \parallel ED$ and $\angle ABC = 30^\circ$, $\angle EDC = 70^\circ$. Find the value of x .



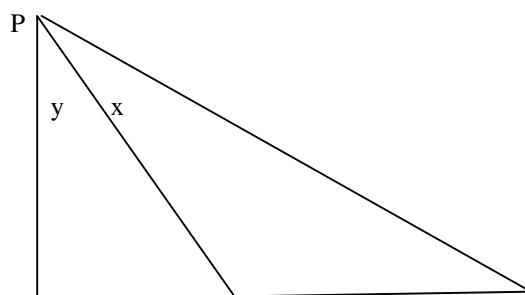
5. In the given figure $AB \parallel DE$, $\angle BAC = 35^\circ$ and $\angle CDE = 53^\circ$, find $\angle DCE$.

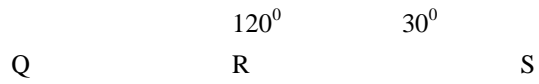


6. If the angles of a triangle are in the ratio 3:7:10, what kind of a triangle is it?
7. The sum of two angles of a triangle is 800 and their difference is 200. Find the angles of the triangle. Find the value of k .



8. Find the value of x and y and find the relation between them.





9. Three friends walk away from a point in three different directions such that the path of each is equally inclined to those of the other two. Find the angles their paths make with one another.