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Class : IX
Subject : Mathematics
Assignment 5: Lines and Angles

1. An angle is $14^{0}$ 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, $\mathrm{AB} / / \mathrm{ED}$ and $\angle \mathrm{ABC}=30^{\circ}, \angle \mathrm{EDC}=70^{\circ}$. Find the value of x .

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

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.


Q |  | $120^{\circ}$ | $30^{\circ}$ |
| :--- | :--- | :--- |
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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.
