

I. Answer the following: 4x1=4

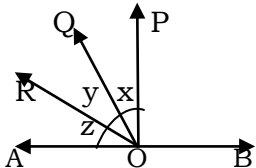
1. How many number of lines do pass through two distinct points?
2. 'Lines are parallel if they do not intersect' is stated in the form of \_\_\_\_.
3. An acute angle is \_\_\_\_.
4. Each angle of an equilateral triangle is \_\_\_\_.

II. Answer the following: 2X2=4

5. Write ant two definitions of Euclid's.
6. One of the angles of a triangle is  $75^\circ$ . If the difference of the other two angles is  $35^\circ$ , then find the largest angle of the triangle?

III. Answer the following: 3x3=9

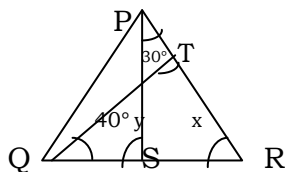
7. In the given figure  $PO \perp AB$ . If  $x:y:z=1:3:5$ , then find the degree measure of  $x$ ,  $y$  and  $z$ .



8. Prove that if one angle of a triangle is equal to the sum of the other two angles, the triangle is right angled.
9. Solve the equation  $x-15=25$  and state Euclid's Axiom used here.

IV. Solve: 4x2=8

10. Write Euclid's five postulates.
11. If  $QT \perp PR$ ,  $\angle TQR=40^\circ$ , and  $\angle SPQ=30^\circ$ , Find  $x$  and  $y$ .



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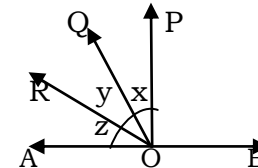
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