

# CLASS-9th.

## CH-6 Lines & Angles

Ques. In the given figure  $POQ$  is a line. find the value of  $x$ .

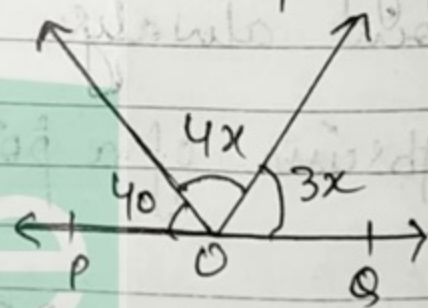
Sol.  $40 + 4x + 3x = 180$

$$7x = 180 - 40$$

$$7x = 140$$

$$x = \frac{140}{7}$$

$$x = 20$$





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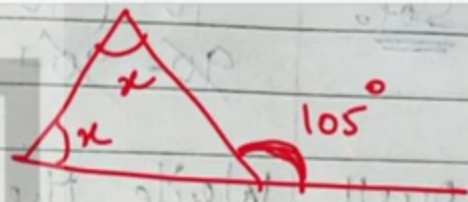
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$$\checkmark 105 = x + x \quad \checkmark$$

$$105 = 2x$$

$$x = \frac{105}{2} = 52.5$$



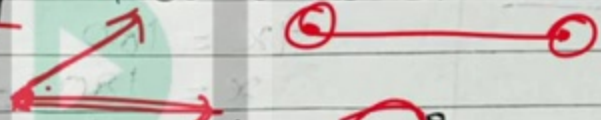
Qus 3 Two angles whose sum is  $180^\circ$  are called Supplementary angles.

Qus 4 If non-Common arms of two opposite rays of two adjacent angles then such angles form a linear pair of angles.

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Qus 6. A line segment has two end points.

Qus 7. The point where two rays meet is called Vertex.



Qus 8. Write the Complementary angle of  $65^\circ$ .

Sol. Complementary angle of  $65^\circ = 90 - 65^\circ = 25^\circ$

Qus 9. Two angles, measure  $(30^\circ - a) + (125^\circ + 2a)$ . If each one is the supplement of the other, then find the value of  $a$ .

Sol.  $30 - a + 125 + 2a = 180$

$$5x + x = 90$$

$$6x = 90$$

$$x = \frac{90}{6}$$

$$x = 15^\circ$$

$$2x = 7x$$

Ques 12, Two Supplementary angles are in the ratio 2:7. Find the measures of angles.

Sol.

$$2x + 7x = 180$$

$$9x = 180$$

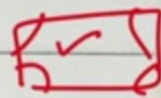
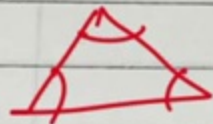
$$x = \frac{180}{9} = 20^\circ$$

Two angles are  $\Rightarrow 2x = 2 \times 20 = 40^\circ$

Qus 16, Sum of all the interior angles of a polygon of n sides =  $(n-2) \times 180^\circ$

$(4-2) \times 180$   
 $2 \times 180$

Qus 17, The exterior angle so formed in a triangle is equal to the sum of the two interior opposite angles.



Qus 18, A ray has two end point

Qus 19, In fig below, Calculate the value of  $q$ .



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