

# Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: IX

Date: .....

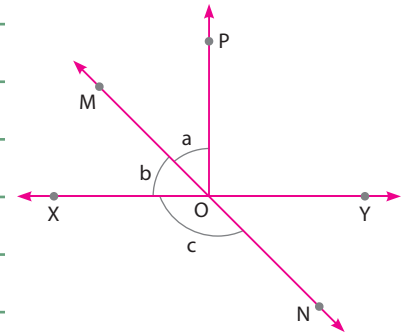
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## Assignment

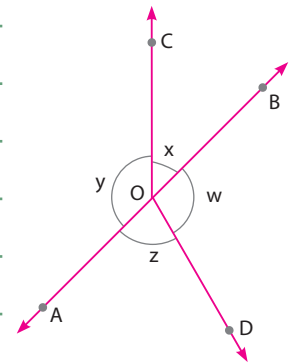
1. In the Fig. 4.2, lines XY and MN intersect at O. If  $\angle POY = 90^\circ$  and  $a : b = 2 : 3$ , find a, b and c.

Sol. \_\_\_\_\_  
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2. In Fig. 4.3, if  $x + y = w + z$ , then prove that AOB is a line.

Sol. \_\_\_\_\_  
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3. In Fig. 4.4, if  $AB \parallel CD$ ,  $CD \parallel EF$  and  $y : z = 3 : 7$ , find x

Sol. \_\_\_\_\_  
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