



# INDIAN SCHOOL NIZWA - WORKSHEET

## MATHEMATICS

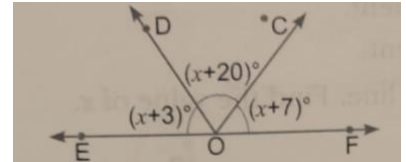
### 6. LINES AND ANGLES

Name: \_\_\_\_\_

Date: \_\_\_\_\_

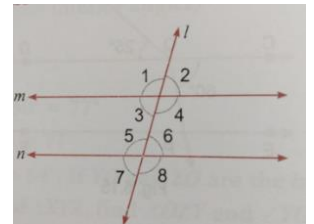
Class: IX Sec: \_\_\_\_

1. In the given figure, find the value of x:

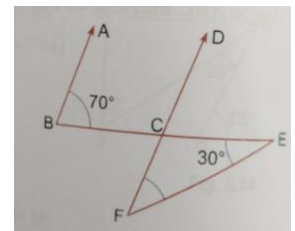


2. In the given figure if  $m \parallel n$ , and  $l$  is the transversal, then identify:

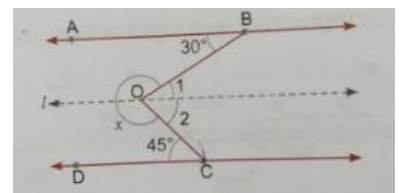
- i) Pair of interior alternate angles
- ii) Pair of exterior alternate angles
- iii) Corresponding angles
- iv)  $\angle 4 + \angle 6 =$  \_\_\_\_\_
- v)  $\angle 3 + \angle 5 =$  \_\_\_\_\_



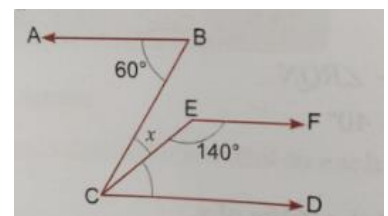
3. In the given figure if  $AB \parallel CD$ , then  $\angle EFD =$  \_\_\_\_\_



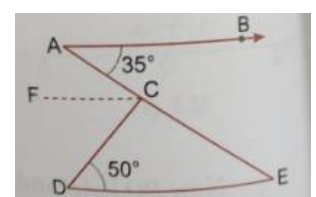
4. In the given figure, if  $AB \parallel CD$ , find x.



5. In the given figure, if  $AB \parallel CD \parallel EF$ . Find x.



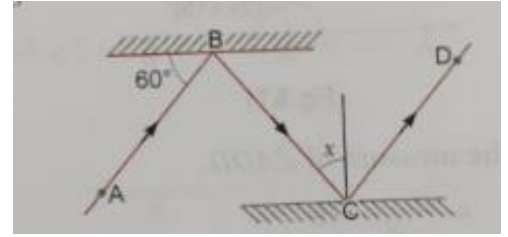
6. In the given figure, if  $AB \parallel DE$ ,  $\angle BAC = 35^\circ$  and  $\angle CDE = 50^\circ$ , find  $\angle DCE$ .



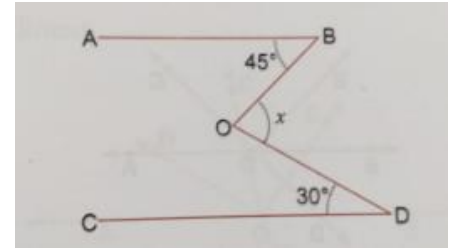


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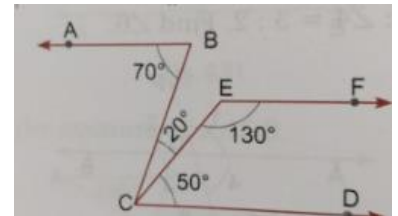
7. In the given figure, if B and C are two mirrors placed parallel to each other, then find x.



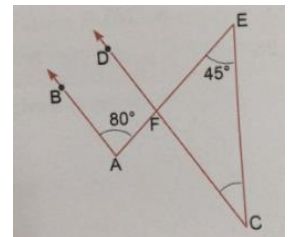
8. In the given figure, if  $AB \parallel CD$ , Find the value of x.



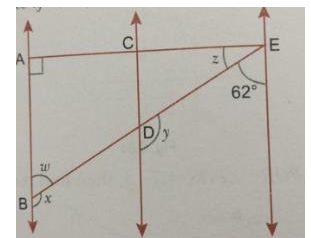
9. In the given figure, prove that  $AB \parallel CD$  and  $CD \parallel EF$ .



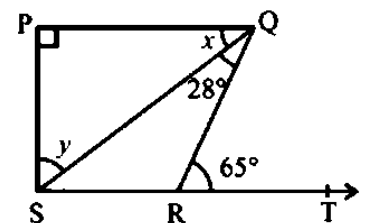
10. In the given figure,  $AB \parallel CD$ . Find the value of  $\angle FCE$ .



11. In the given figure,  $AB \parallel CD$  and  $CD \parallel EF$ . Also  $EA \perp AB$ . If  $\angle BEF = 62^\circ$ , find the values of w, x, y, z.



12. In the given figure, if  $PQ \perp PS$ ,  $PQ \parallel SR$ ,  $\angle SQR = 28^\circ$  and  $\angle QRT = 65^\circ$ , then find the values of x and y.





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