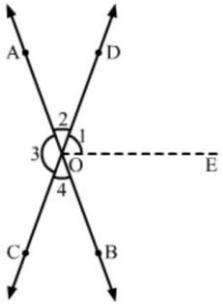
Subject: - Mathematics
Topic: -

PRACTICE PAPER

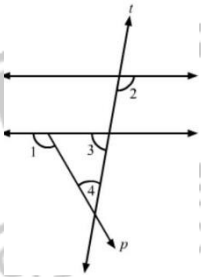
CBSE-7th

1. In fig. OE is the bisector of $\angle BOD$. If $\angle 1 = 70°$. Find the magnitude of $\angle 2, \angle 3$ *and* $\angle 4$.

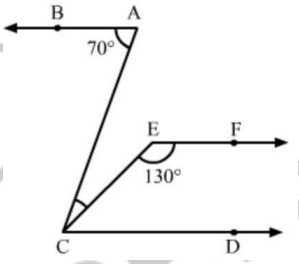
Ans. $\angle \mathbf{2} = \mathbf{40°}$ $\angle \mathbf{3} = \mathbf{140°}$



Q.1.



Q.2.



Q.3.

2. in fig. line $l \parallel m$, $\angle 1 = 120°$ and $\angle 2 = 100°$, find out $\angle 3$ *and* $\angle 4$. **Ans.** $\angle \mathbf{4} = \mathbf{40°}$

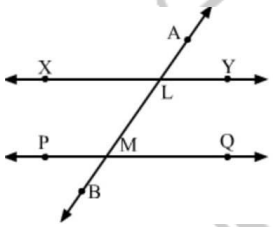
3. In fig. if $AB \parallel CD$ and $CD \parallel EF$, Find $\angle ACE$. **Ans.** $\angle \mathbf{3} = \mathbf{80°}, \angle \mathbf{4} = \mathbf{40°}$

4. In fig. we have: - i) $\angle MLY = 2\,\angle LMQ$, find $\angle LMQ$ **Ans.** $\angle \boldsymbol{LMQ} = \mathbf{60°}$

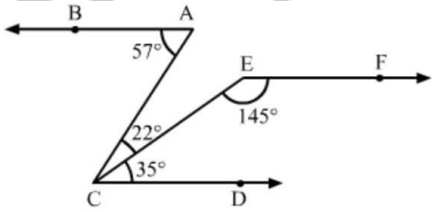
ii) $\angle XLM = (2x - 10)$ *and* $\angle LMQ = x + 30°$ find x. **Ans.** $\boldsymbol{x} = \mathbf{40°}$

iii) $\angle XLM = \angle PML$. Find $\angle ALY$. **Ans.** $\angle \boldsymbol{ALY} = \mathbf{90°}$

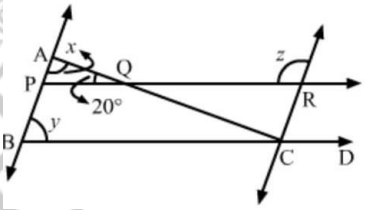
iv) $\angle ALY = (2x - 15)°$, and $\angle LMQ = (x - 40)°$. Find x. **Ans.** $\boldsymbol{x} = \mathbf{55°}$



Q.4.

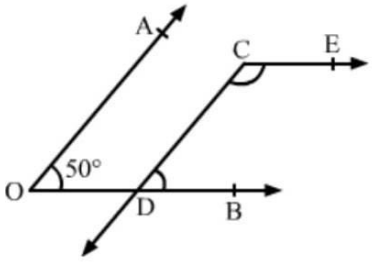


Q.5.



Q.6.

5. In fig. Show that $AB \parallel EF$.



Q.7.

6. In fig. $CA \perp AB$ and line $AB \parallel CR$ and line $PR \parallel BC$. Find $\angle x, \angle y$ *and* $\angle z$. **Ans.** $\angle \boldsymbol{x} = \mathbf{90°}, \angle \boldsymbol{y} = \mathbf{70°}, \angle \boldsymbol{z} = \mathbf{110°}$

7. In fig. it is being given that $AO \parallel CD, OB \parallel CE$ and $\angle AOB = 50°$. Find $\angle ECD$. **Ans.** $\mathbf{130°}$

8. Two parallel lines *l* and *m* cut by transversal *t*. If the interior angles of the same side of *t* be (2x – 8) and (3x – 7), Find the measure of each of these angles. **Ans.** $\angle \mathbf{1} = \mathbf{70°}, \angle \mathbf{2} = \mathbf{110°}$

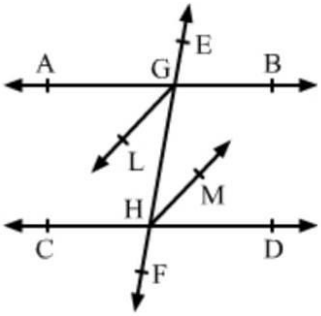
9. In the given figure. $AB \parallel CD$ and a transversal EF cuts them at G and H respectively. If GL and HM are the bisectors of the alternate angles $\angle AGH$ and $\angle GHD$ respectively. Prove that $GL \parallel HM$.

10. In the given figure, $AB \parallel CD$ $\angle ABE = 120°$. $\angle ECD = 100°$ and $\angle BEC = x°$. Find the value of x.

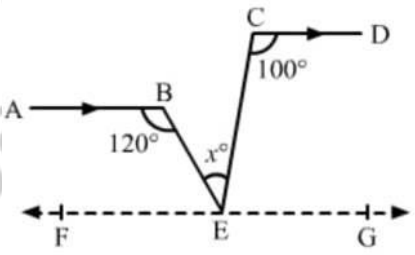
Ans. $\boldsymbol{x = 40°}$

11. In the given figure, $l \parallel m$ and $p \parallel q$. Find the measure of each of the angles $\angle a, \angle b, \angle c$ and $\angle d$.

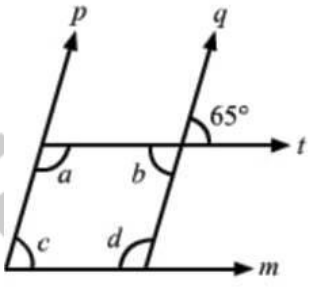
Ans. $\boldsymbol{\angle a = 65°}$, $\boldsymbol{\angle b = 115°}$, $\boldsymbol{\angle c = 65°}$, $\boldsymbol{\angle d = 115°}$



Q.9.



Q.10.



Q.11.