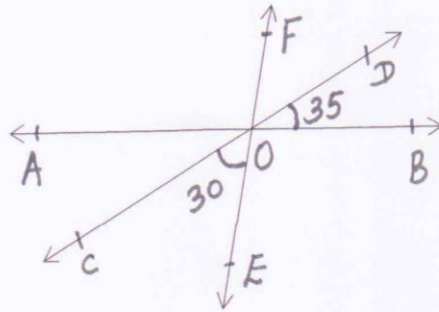


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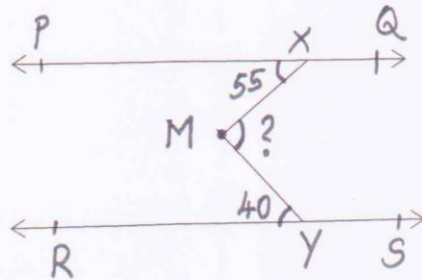
Worksheet For The Academic Year 2024-25

CLASS: IX SUBJECT: Mathematics DATE: 30/05/2024
LESSON-6 Lines & Angles

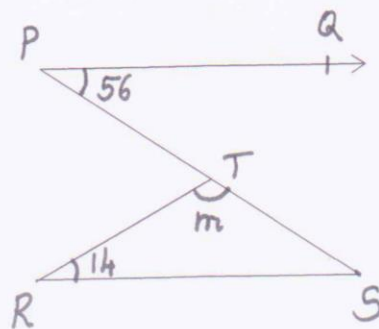
- 1) If two adjacent angles add up to 180° , they form a _____.
- 2) Two angles whose sum is 90° are _____ angles.
- 3) Lines PQ and RS intersect at O. If $\angle PQR : \angle ROQ = 5 : 7$, find all the angles.
- 4) If $2x + 30$ and $2x + 10$ are adjacent angles on a straight line, find x.
- 5) In the figure, find $\angle AOC$ and $\angle COF$.



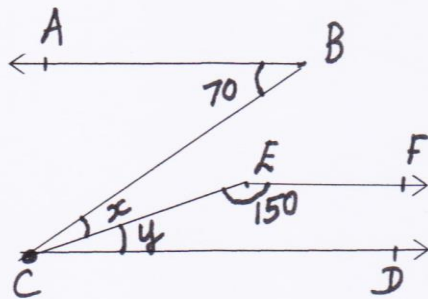
- 6) In the figure $PQ \parallel RS$, find $\angle XMY$.



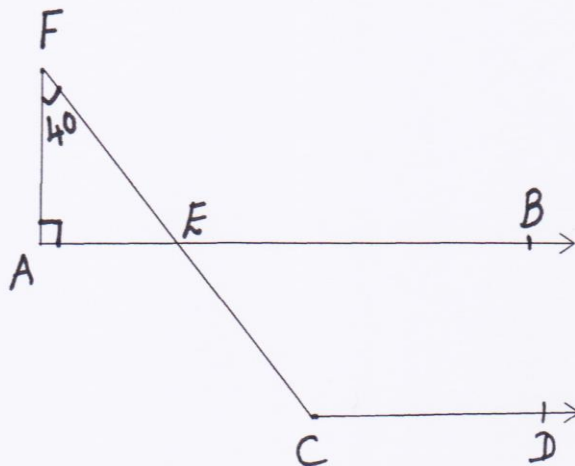
- 7) In the figure $PQ \parallel RS$, find the value of 'm'.



8) In the figure $AB \parallel EF \parallel CD$, find x and y .



9) In the figure $AB \parallel CD$, find $\angle ECD$.



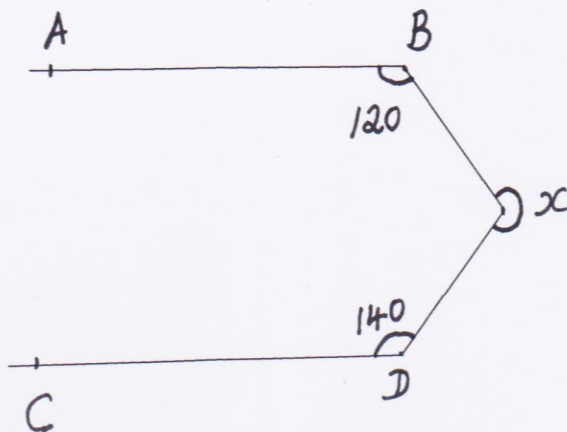
10) Write the complement of $90 - a$.

11) Write the angle which is the supplement of itself.

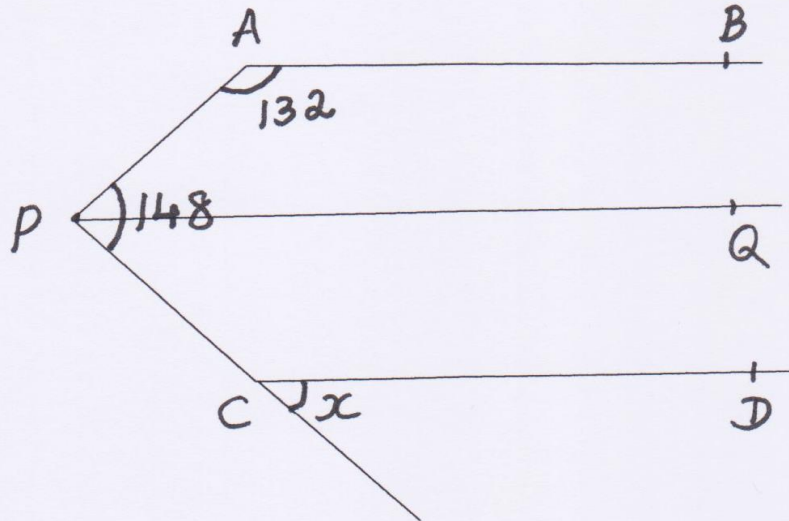
12) Two supplementary angles are in the ratio $2 : 3$. Find the angles.

13) Prove that if two lines intersect, the vertically opposite angles are equal.

14) If $AB \parallel CD$, find x in the given figure.



15) If $AB \parallel PQ \parallel CD$ in the given figure , find x .



ANSWERS

- 3) $75^\circ, 105^\circ, 75^\circ, 105^\circ$
- 4) 35
- 5) 35° & 150°
- 6) 95°
- 7) 110°
- 8) 40° & 30°
- 9) 130°
- 10) a
- 11) 90°
- 12) $72^\circ, 108^\circ$
- 14) 260°
- 15) 100°