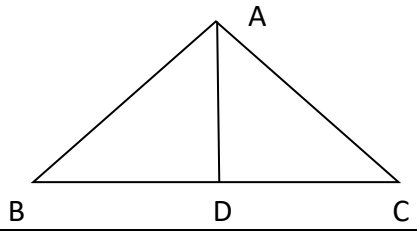
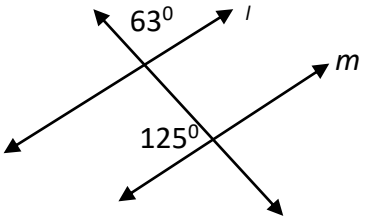
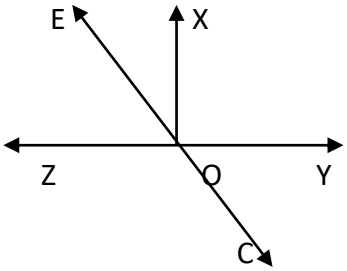
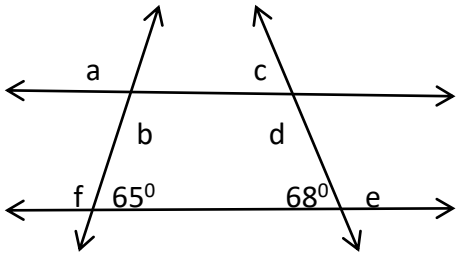
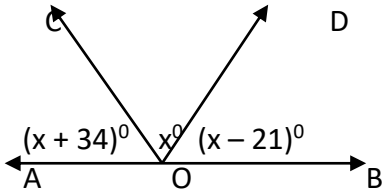
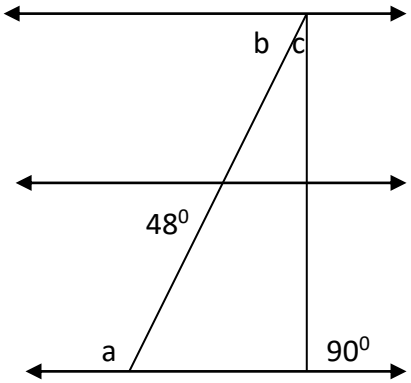
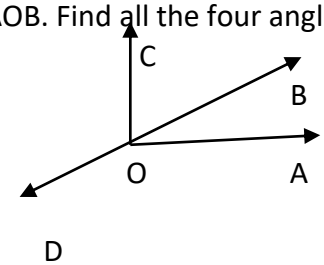
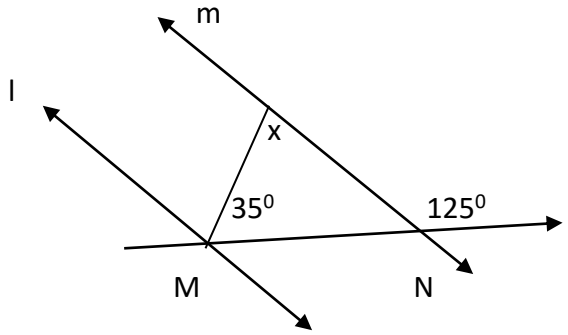
INDIAN SCHOOL DARSAIT
DEPARTMENT OF MATHEMATICS

Subject : Mathematics	Topic : Lines And Angles	Date of Worksheet : _3/09/2019_____
Resource Person: Mrs Geetha Girish		Date : _____
Name of the Student :_____	Class & Division : VII___	Roll Number : __

S.No.	Section A(Basic Skills)	Marks
1	(a) Identify three triangles in the figure. (b) Write the names of seven angles. (c) Write the names of six line segments. (d) Which two triangles have <B as common? 	2
2.	Draw a rough sketch of a quadrilateral KLMN. State, (a) Two pairs of opposite angles, (b) Two pairs of opposite sides, (c) Two pairs of adjacent sides, (d) Two pairs of adjacent angles.	2
3.	Draw a circle and mark (a) Its centre (b) A diameter (c) A segment (d) A point in its exterior (e) A radius (f) A sector (g) A point in its interior (h) An arc	3
	Section B	
4	State whether *l* is parallel to *m*. Give reason. 	2
5	Two angles are adjacent and form an angle of 150^0. The larger angle is 30^0 more than twice the smaller angle. Find the angles.	2
6	Name the following pairs of angles a. Obtuse vertically opposite angles b. Adjacent complementary angles c. Equal Supplementary angles d. Adjacent angles that do not form a linear pair e. Acute vertically opposite angles f. Unequal supplementary angles 	3

7	Two angles forming a linear pair are in the ratio 7 : 5. Find the angles.	2
8	In the fig. *l* ll *m*. Find the value of a, b, c, d, e, f. Give reasons. 	4
9	Find <AOC, <COD and <BOD. 	3
	Section C(Hot Questions)	
10	Find the measure of the angles 	4
11	In the given figure, <AOB = x^0. <BOC is twice of <AOB. <COD is 4 times <AOB and <AOD is 5 times <AOB. Find all the four angles. 	4

12	Line l is parallel to line m. Find x.  	4