



WORK SHEET

CLASS: 7<sup>th</sup> SUBJECT: Mathematics LESSON: Lines and Angles  
2011-2012 (Chapter 5)

1. Write the complements of the following angles:

$15^\circ, 28^\circ, 30^\circ, 45^\circ, 59^\circ, 67^\circ, 75^\circ, 87^\circ, 90^\circ, x^\circ$

2. Write the supplements of the following angles:

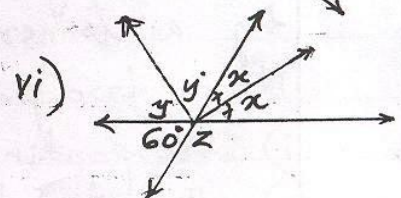
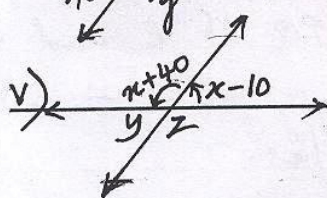
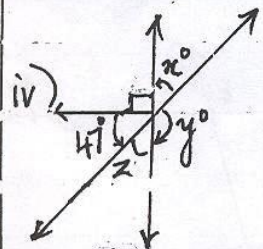
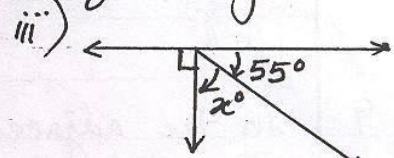
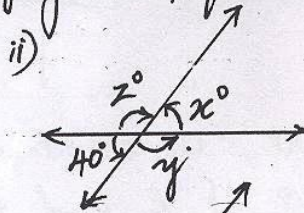
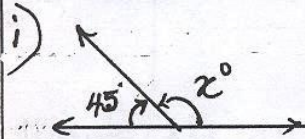
$25^\circ, 36^\circ, 42^\circ, 65^\circ, 90^\circ, 110^\circ, 120^\circ, 125^\circ, 138^\circ, 147^\circ, 175^\circ, x^\circ$

3. Write a pair of equal angles which are

i) Complementary

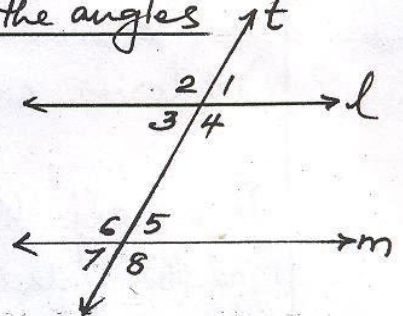
ii) Supplementary

4. In the following figures, find the values of  $x$ ,  $y$  and  $z$

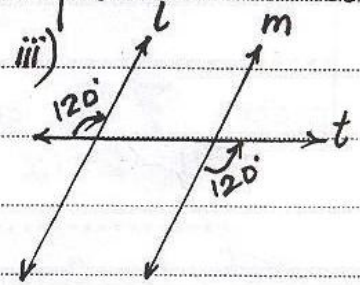
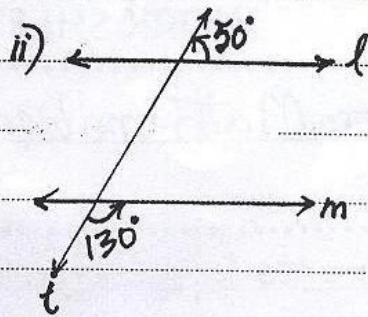
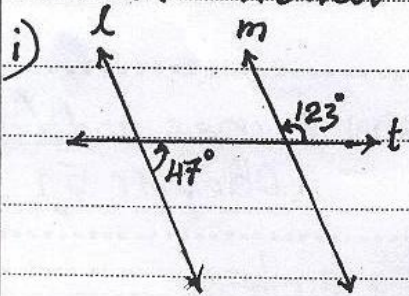


5. Two Complementary angles are such that the measure of one is twice the measure of the other. Find the angles  $\uparrow$  t

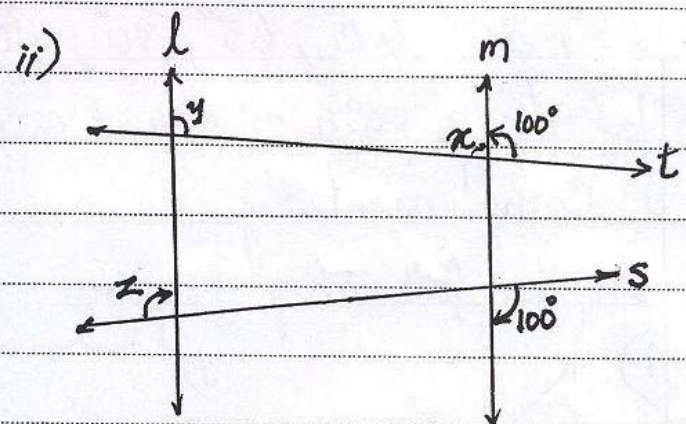
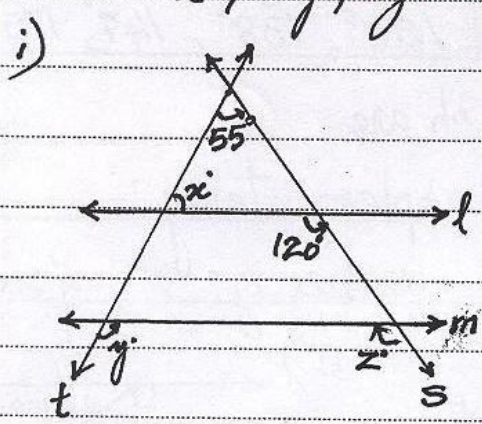
6. In the figure,  $l \parallel m$  and  $\angle 1 = 50^\circ$   
Find the measures of the other seven angles



7. check whether the lines  $l$  and  $m$  are parallel or not.

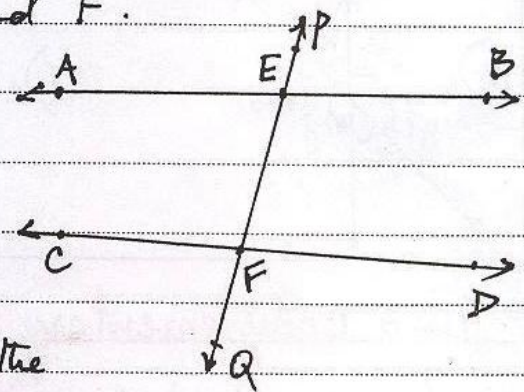


8. In the figure,  $l \parallel m$  and  $t, s$  are transversals. Find  $x, y, z$ .



9. In the adjacent figure, lines  $AB$  and  $CD$  are intersected by a transversal  $PQ$  at  $E$  and  $F$ .

- Name two pairs of
- i) corresponding angles.
  - ii) alternate interior angles.
  - iii) alternate exterior angles.
  - iv) interior angles on the same side of the transversal (consecutive int. angles)
  - v) exterior angles on the same side of the transversal



10. In the adj. figure  $l \parallel m \parallel n$ . Find the values of  $x$  and  $y$ .

