

Geometry Worksheet  
Chapter 2.3

Work the problems on a separate sheet of paper. You must show work to get credit.

- ✓ 1)  $m\angle TRY = 4x + 12$   
 $m\angle SRY = 3x + 18$   
Find the  $m\angle SRT$ .

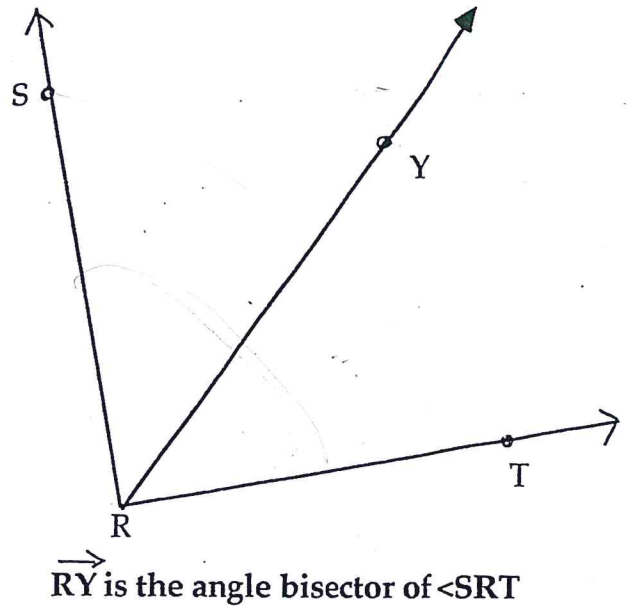
72°

- 2)  $m\angle SRT = 58$  and  $m\angle TRY = 4x - 3$ . Find  $x$ .

$x = 8$

- 3)  $m\angle SRY = 5x + 17$  and  $m\angle TRY = 8x - 10$ .  
Find  $m\angle SRT$ .

124°



- ✓ 4)  $LM = 6x - 5$   
 $MN = 5x + 8$   
Find  $LN$ .

146

- 5)  $LN = 8x - 12$   
 $MN = 3x + 8$   
Find  $LM$ .

~~100~~  
50

- 6)  $LN = 14$  and  $MN = 3x - 5$ . Find  $x$ .

$x = 4$

M is the midpoint of  $\overline{LN}$

