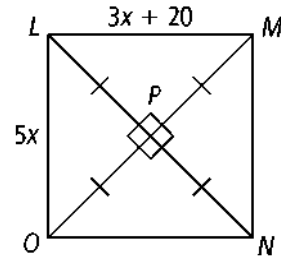


5.2 – Perpendicular Bisectors in Triangles

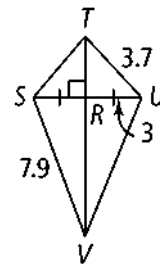
Use the figure at the right for Exercises 1–4.

- 1) What is the relationship between \overline{LN} and \overline{MO} ?
- 2) What is the value of x ?
- 3) Find LM .
- 4) Find LO .

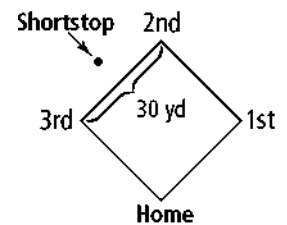


Use the figure at the right for Exercises 5–8.

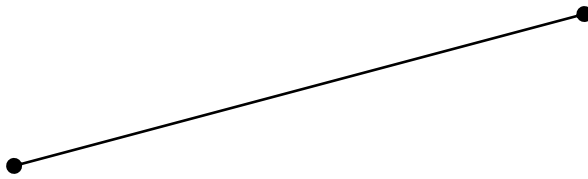
- 5) From the information given in the figure, how is \overline{TV} related to \overline{SU} ?
- 6) Find TS .
- 7) Find UV .
- 8) Find SU .



- 9) In baseball, the baseline is a segment connecting the bases. A shortstop is told to play back 3 yd from the baseline and exactly the same distance from second base and third base. Describe how the shortstop could estimate the correct spot. There are 30 yd between bases. Assume that the shortstop has a stride of 36 in.



10) Using a straight edge draw the perpendicular bisector of the following shape



11) Draw the circumcenter of the triangle. Draw all lines that contribute to this point of concurrency. Afterwards, draw the circumscribed circle around the triangle.

