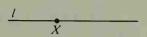
Exercises 11-13 will analyze the following problem.

Given: Line l; points X and Y

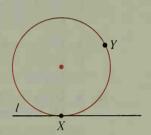
Construct: A circle through Y and tangent to l at X



• Y

If the problem had been solved, we would have a diagram something like the one shown.

- 11. Where does the center of the circle lie with respect to line *l* and point *X*?
- 12. Where does the center of the circle lie with respect to \overline{XY} ?
- 13. Explain how to carry out the construction of the circle.

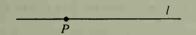


Written Exercises

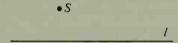
Draw a figure roughly like the one shown, but larger. Do the indicated construction clearly enough so that your method can be understood easily.

A

1. The perpendicular to l at P



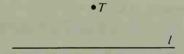
2. The perpendicular to *l* from *S*



3. The perpendicular bisector of \overline{JK}



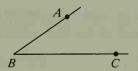
4. The parallel to l through T



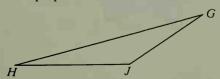
5. The parallel to \overrightarrow{ED} through F



6. The perpendicular to \overrightarrow{BA} at A



7. The perpendicular to \overrightarrow{HJ} from G



8. A complement of $\angle KMN$

