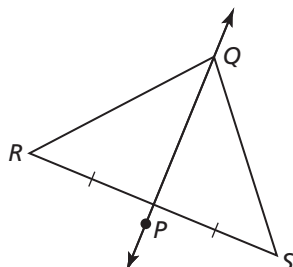


# 6.2

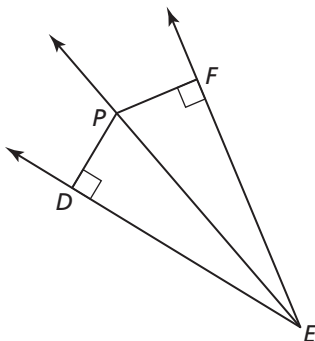
## Practice B

In Exercises 1–3, tell whether the information in the diagram allows you to conclude that point  $P$  lies on the perpendicular bisector of  $\overline{RS}$ , or on the angle bisector of  $\angle DEF$ . Explain your reasoning.

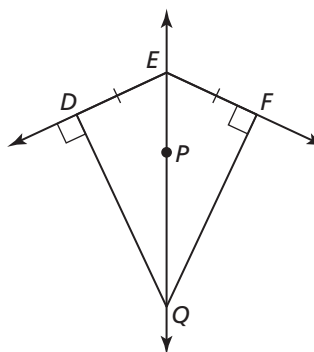
1.



2.

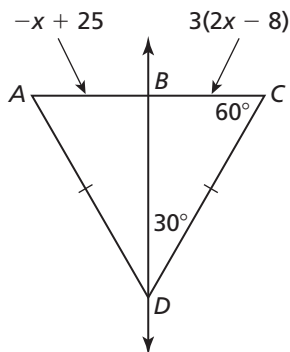


3.

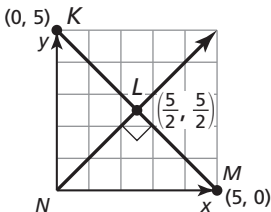


In Exercises 4–6, find the indicated measure. Explain your reasoning.

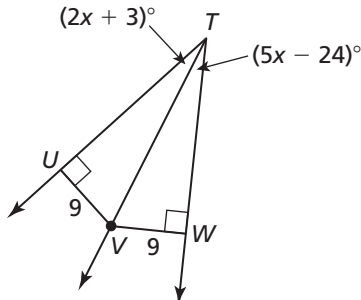
4.  $AC$



5.  $m\angle LNM$

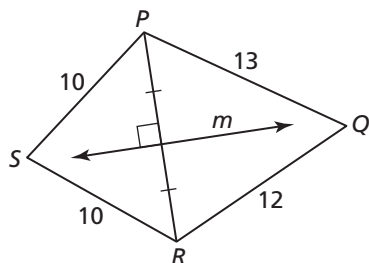


6.  $m\angle UTW$



7. Write an equation of the perpendicular bisector of the segment with the endpoints  $G(3, 7)$  and  $H(-1, -5)$ .

8. In the figure, line  $m$  is the perpendicular bisector of  $\overline{PR}$ . Is point  $Q$  on line  $m$ ? Is point  $S$  on line  $m$ ? Explain your reasoning.



9. You are installing a fountain in the triangular garden pond shown in the figure. You want to place the fountain the same distance from each side of the pond. Describe a way to determine the location of the fountain using angle bisectors.

