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### 6.2 Practice A

In Exercises 1-3, tell whether the information in the diagram allows you to conclude that point $P$ lies on the perpendicular bisector of $\overline{R S}$, or on the angle bisector of $\angle D E F$. Explain your reasoning.
1.

2.

3.


In Exercises 4-7, find the indicated measure. Explain your reasoning.
4. $A D$

6. $P Q$

5. $G J$

7. $m \angle D G F$

8. Write an equation of the perpendicular bisector of the segment with the endpoints $A(-2,-2)$ and $B(6,0)$.
9. Explain how you can use the perpendicular bisector of a segment to draw an isosceles triangle.
10. In a right triangle, is it possible for the bisector of the right angle to be the same line as the perpendicular bisector of the hypotenuse? Explain your reasoning. Draw a picture to support your answer.

