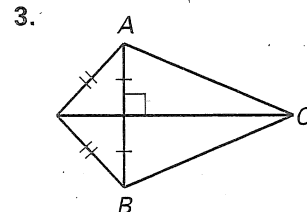
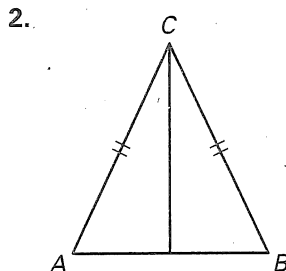
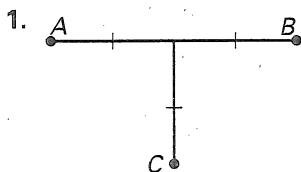


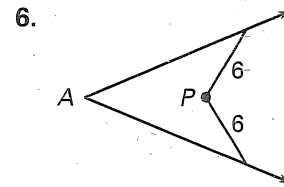
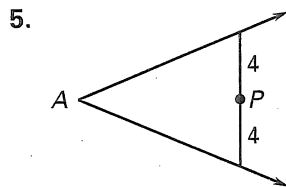
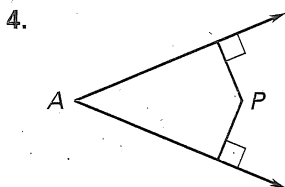
Practice B

For use with pages 264–271

Tell whether the information in the diagram allows you to conclude that C is on the perpendicular bisector of \overline{AB} . Explain your reasoning.



Tell whether the information in the diagram allows you to conclude that P is on the bisector of $\angle A$. Explain your reasoning.



Draw \overline{AB} with the given length. Construct the perpendicular bisector and choose point D on the perpendicular bisector so that the distance between D and \overline{AB} is 1 inch. Measure \overline{AD} and \overline{BD} .

7. $AB = 1.5$ in.

8. $AB = 2$ in.

9. $AB = 0.5$ in.

Draw $\angle BAC$ with the given measure. Construct the angle bisector and choose point D on the bisector so that $AD = 25$ mm. Measure the distance between D and the sides of $\angle BAC$.

10. $m\angle BAC = 50^\circ$

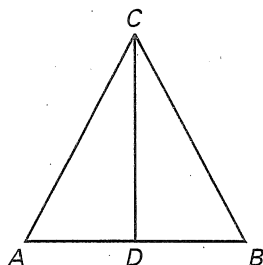
11. $m\angle BAC = 60^\circ$

12. $m\angle BAC = 100^\circ$

Write a two-column or a paragraph proof.

13. **Given:** C is on the perpendicular bisector of \overline{AB} .

Prove: $\triangle ADC \cong \triangle BDC$



14. **Given:** $\triangle WOZ \cong \triangle WOY$
Prove: $\overline{XY} \cong \overline{XZ}$

