LESSON 5.1

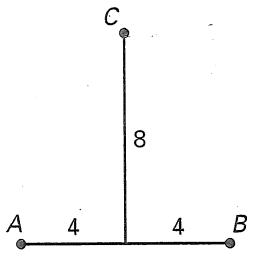
NAME _____ DATE _____

Practice C

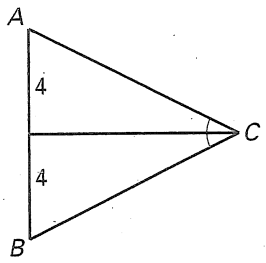
For use with pages 264–271

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

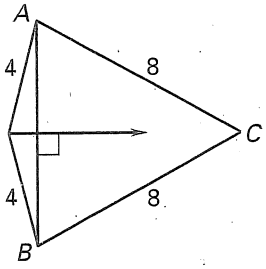
1.



2.

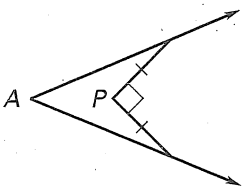


3.

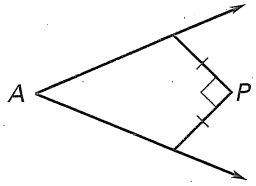


Tell whether the information in the diagram allows you to conclude that P is on the bisector of $\angle A$. Explain your reasoning.

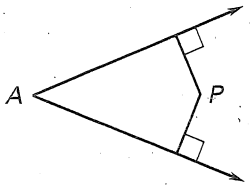
4.



5.



6.



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 2 inches. Measure $\overline{AD}$ and $\overline{BD}$.

7. $AB = 2$ in.

8. $AB = 1.25$ in.

9. $AB = \frac{5}{8}$ in.

Draw $\angle BAC$ with the given measure. Construct the angle bisector and choose point D on the bisector so that $AD = 40$ mm. Measure the distance between D and the sides of $\angle BAC$.

10. $m\angle BAC = 30°$

11. $m\angle BAC = 90°$

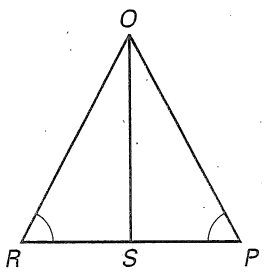
12. $m\angle BAC = 120°$

Write a two-column or a paragraph proof.

13. **Given:** S is on the bisector of $\angle POR$.

$\angle OPS \cong \angle ORS$

Prove: $\overline{OS}$ is a perpendicular bisector of $\overline{PR}$.



14. **Given:** $\overline{AC}$ is a perpendicular bisector of $\overline{BD}$.

Prove: $\triangle ABE \cong \triangle ADE$