

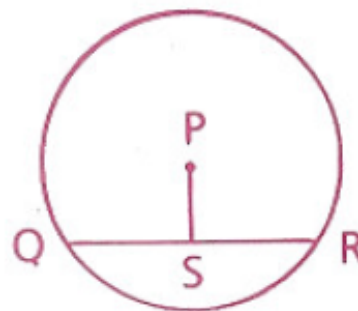
# Homework

p. 182: 1, 4, 5, 9

1 Given:  $\odot P$ ;

$S$  is the midpt. of  $\overline{QR}$ .

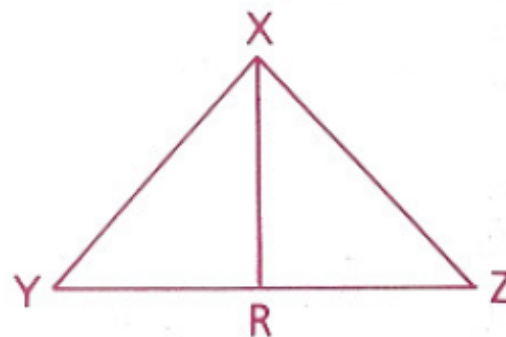
Prove:  $\overline{PS} \perp \overline{QR}$



4 Given:  $\overrightarrow{XR}$  bisects  $\angle YXZ$ .

$\angle Y \cong \angle Z$

Conclusion:  $\overline{XR}$  is an altitude.



5 A diameter of a circle has endpoints with coordinates  $(2, 6)$  and  $(-4, 10)$ . Find the coordinates of the center of the circle.

9 Given:  $\odot O$ ,

$\angle B \cong \angle C$

Conclusion:  $\overline{AO} \perp \overline{BC}$

