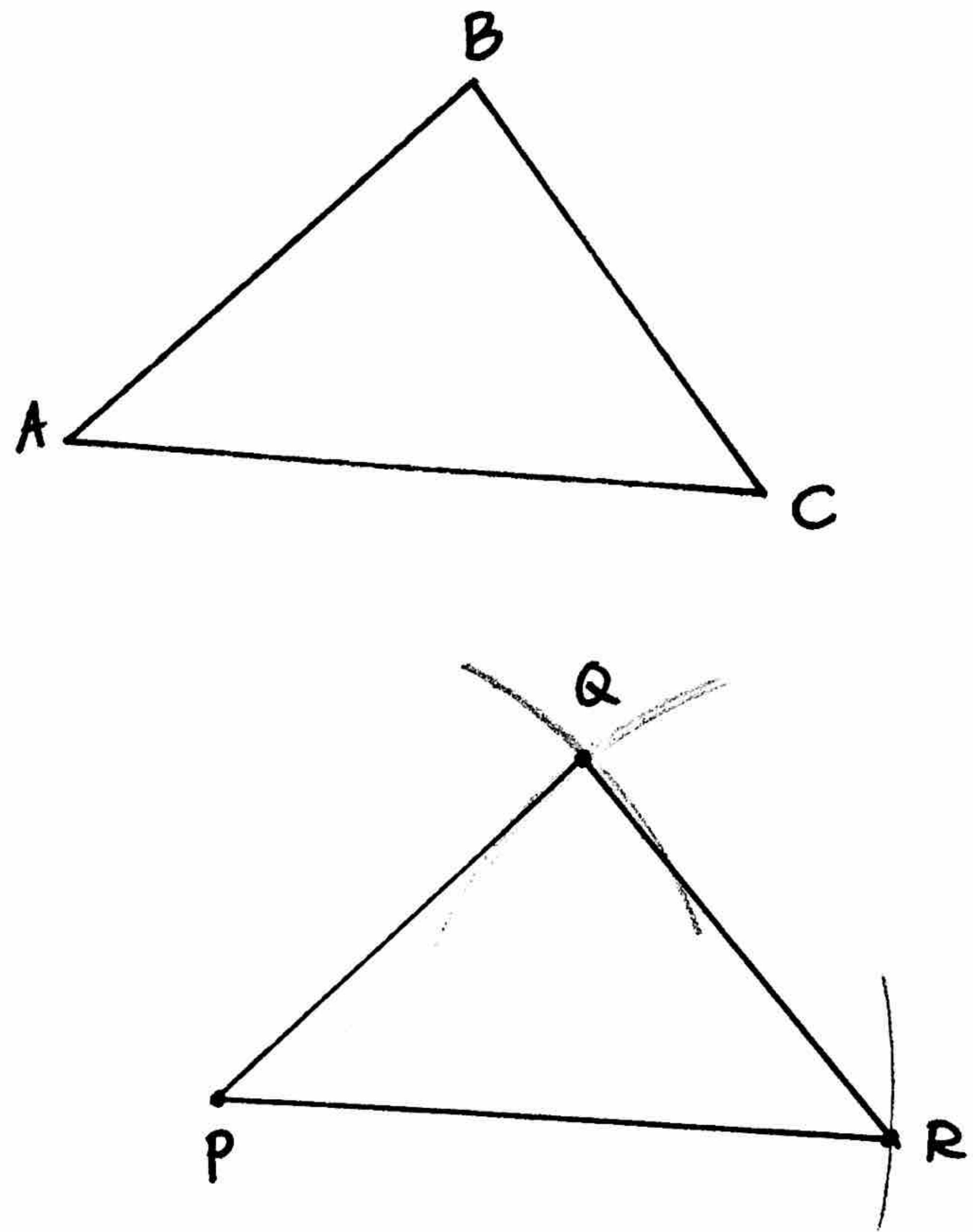


Copy a Triangle

- ① Start with $\triangle ABC$, mark a point P that will be one vertex of the new triangle
- ② Set the compass' width to the length of \overline{AC} , mark an arc of this length from $\cdot P$, mark a point R on this arc
- ③ Set the compass' width to the length of \overline{AB} , mark an arc of this length from $\cdot P$, the 3rd vertex will be somewhere on this arc
- ④ Set the compass' width to the length of \overline{BC} , mark an arc of this length from $\cdot P$
- ⑤ Where the previous 2 arcs intersect is the third vertex, Q, of the copied triangle
- ⑥ Draw the 3 sides of the \triangle



$$\triangle PQR \cong \triangle ABC$$