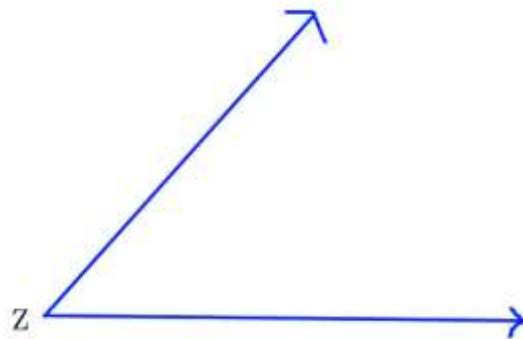


1. Construct the perpendicular bisector of \overline{AB} shown below. Leave all circular arcs/markings as evidence of proper construction.



2. Construct the angle bisector \overrightarrow{ZP} for $\angle Z$ below. Leave all circular arcs/markings as evidence of proper construction.

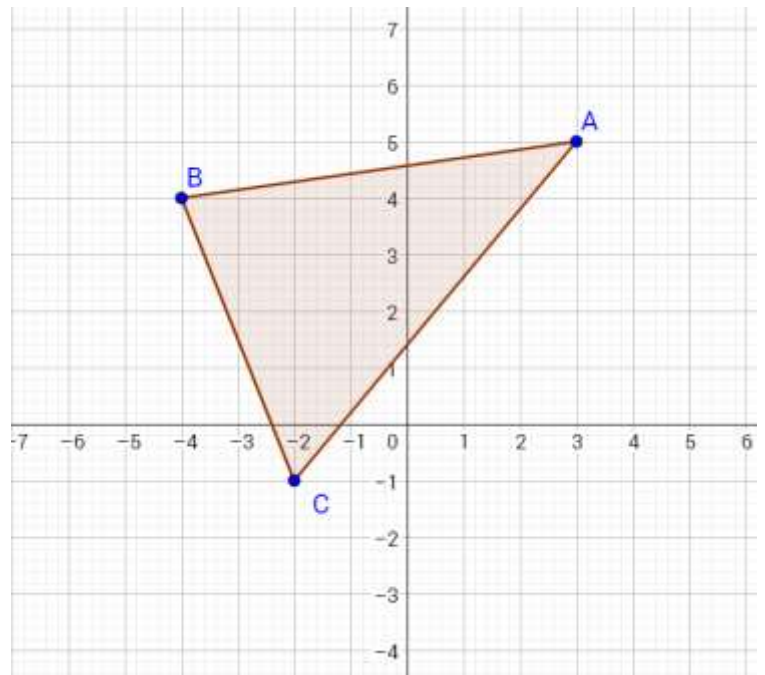


3. F is the midpoint of \overline{AD} . $AF=4x + 3$, $AD=2x + 24$. What is the length of \overline{AD} ?

GPE-B7a

4. Find the perimeter of $\triangle ABC$ to the nearest tenth of a unit.

5. Suppose point M (not shown) is the exact midpoint of \overline{BA} in the diagram. What are the coordinates of point M ?



6. (No diagram) Suppose point Q has coordinates $(4.3, -2.1)$ and point R has coordinates $(2.5, 6.7)$. Find the length of segment \overline{RQ} .

CO-A1c

7. Name the angle which is vertical to $\angle BCA$.
8. Which of the following describe(s) $\angle GFH$ and $\angle CFH$ as an angle pair? Choose ALL that apply:
- complementary angles
 - supplementary angles
 - vertical angles
 - adjacent angles
 - linear pair
9. Name a pair of complementary angles.

