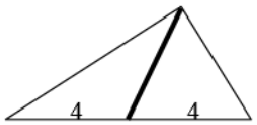
Geometry ***Name*** _____

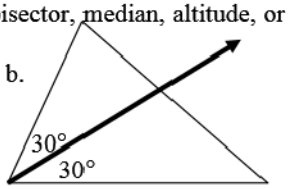
Chapter 5 Review Sheet ***Date*** _____ ***Period*** ____

1. Name each segment or line as an angle bisector, median, altitude, or perpendicular bisector.

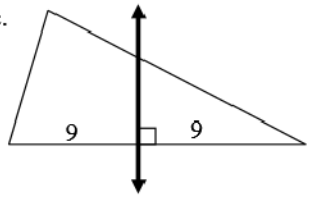
a.



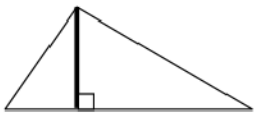
b.



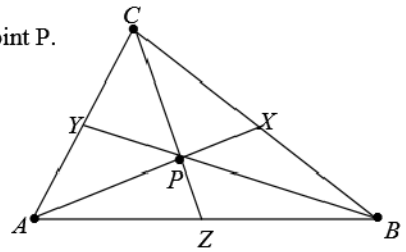
c.



d.



2. The three medians intersect in ΔABC at point P.



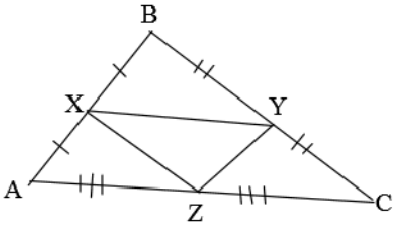
a. If $AC = 24$ cm, then $CY =$ _____.

b. If $PZ = 10$ cm, then $CP =$ _____.

c. If $BY = 44$ cm, then $PY =$ _____.

d. If the area of $\Delta PXC = 30 cm^2$, then the area of $\Delta ABC =$ _____.

3.



a. $\overline{XY}$ // _____.

b. If $XY = 22$ in., then $AC =$ _____.

c. If $YC = 18$ in., then $XZ =$ _____.

4. **Write the temporary assumption you would make as a first step in writing an indirect proof.**

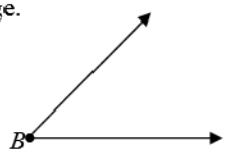
Given: $\overline{XY}$ and $\overline{XM}$; **Prove:** $XY = XM$

5. Construct a line parallel to ***m*** through point P not on the line. 5. •*P*

Do the following constructions. Use only a compass and straight edge.

6. Construct the angle bisector of $\angle B$.

6.



7. Construct the perpendicular bisector of $\overline{AB}$.

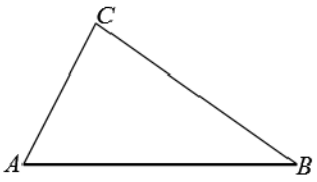
7.

8. Construct the line perpendicular to line m at point T.

8.

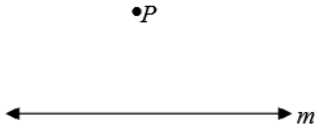
9. Construct the midpoint of side BC.

9.



10. Construct a line perpendicular to line m through point P.

10.



11 Construct the altitude from A to side BC.

11.