

Cumulative Review

For use after Chapters 1-9

Find the length of AB . Write your answer to the nearest tenth. (1.3)

1. $A(5, 2), B(-7, 4)$

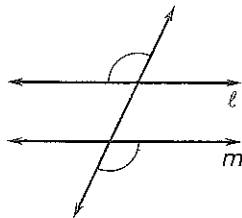
2. $A(-3, 1), B(5, 9)$

Write the (a) inverse and (b) converse of the statement. (2.1)

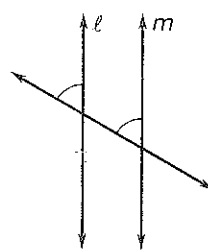
3. If $m\angle 1 = 110^\circ$, then $\angle 1$ is an obtuse angle. 4. If the sun is shining, then it is not raining.

State the postulate or theorem you would use to prove $l \parallel m$. (3.3)

5.



6.

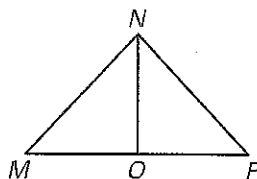


Prove using a two-column format. (4.3, 4.4, 4.6)

7. Given: $\overline{MN} \cong \overline{PN}$

O is a midpoint of \overline{MP} :

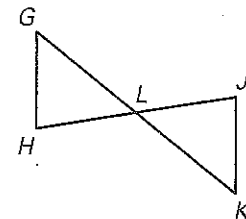
Prove: $\triangle MON \cong \triangle PON$



8. Given: $\overline{GH} \parallel \overline{KJ}$

$\overline{LG} \cong \overline{LK}$

Prove: $\angle H \cong \angle K$

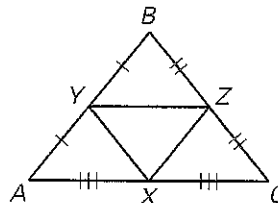


Complete the following, using the given information. (5.4)

$XZ = 4, BC = 10$, perimeter of $\triangle XYZ = 16$

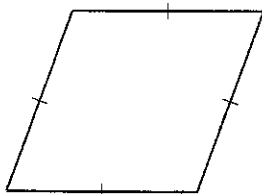
9. $AB = \underline{\quad? \quad}$

10. Perimeter of $\triangle ABC = \underline{\quad? \quad}$.

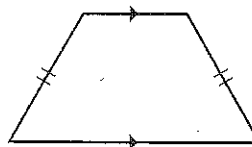


Give the most descriptive name of the figure. (6.6)

11.



12.



Give the coordinates of the image of \overrightarrow{AB} using the translation vector described. (7.4)

13. $\langle -2, 3 \rangle$

14. $\langle 3, 1 \rangle$

