

New Concepts

Problem Set #28

“In the book of life, the answers aren't in the back.”

- Charles Shultz

New Postulates and Theorems

- Theorem 41 – If two lines are parallel, then all points on one line are equidistant from the other line.
- Theorem 42 – If three parallel lines cut off congruent segments on one transversal, then they cut off congruent segments on every transversal.
- Theorem 43 – If a line contains the midpoint of one side of a triangle and is parallel to another side, then it passes through the midpoint of the third side.
- Theorem 44 – If a segment joins the midpoints of two sides of a triangle, then it
 - a) is parallel to the third side and
 - b) is half as long as the third side

Exercises:

p.180 #5-19odd,20,22

Problems:

28-1 Quadrilaterals, part III

A quadrilateral has vertices on (1,2), (5,3), (7,8) and (9,7). What is the area of the quadrilateral?