Geometry Chapter 6 Review

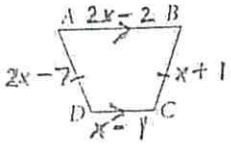
SHOW ALL WORK ON A SEPARATE SHEET

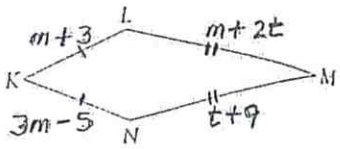
For 1 and 2: a) Plot and connect each of the 4 points to form a quadrilateral
b) Find the slope of each side using the slope formula.
c) Find the length of each side using the distance formula.
d) Give the most precise name for the figure.

1. $N(-1, 2)$, $M(3, 4)$, $L(1, -2)$, $K(5, 0)$

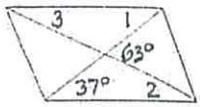
2. $P(-4, 2)$, $Q(-1, 3)$, $R(7, 0)$, $S(4, -1)$

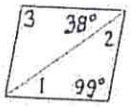
Find the values of the variables and the lengths of each of the sides.

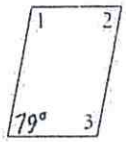
3. 

4. 

Find the measure of each angle in the parallelogram. Each angle found must have work (algebra) or a theorem.

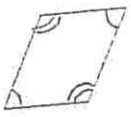
5. 

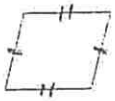
6. 

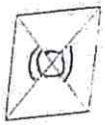
7. 

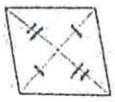
Just answers = no credit!

Is the quadrilateral a parallelogram? If YES, write the applicable theorem. If NO, explain why not.

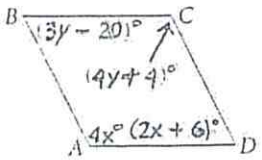
8. 

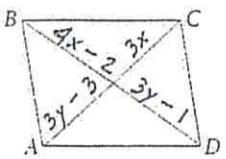
9. 

10. 

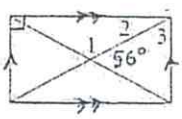
11. 

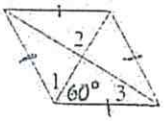
Find the values of the variable for which the quadrilateral must be a parallelogram.

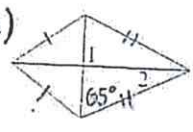
11. 

12. 

Find the measures of the numbered angles in each quadrilateral. Each angle found must have work (algebra) or a theorem.

13. 

14. 

15. a) 

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