

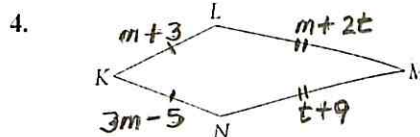
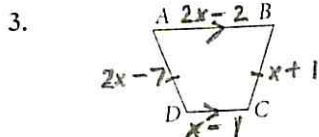
SHOW ALL WORK ON A SEPARATE SHEET

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

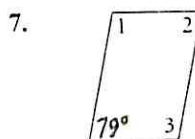
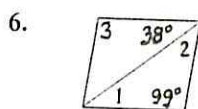
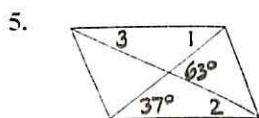
1. $N(-1, 2), M(3, 4), L(1, -2), K(5, 0)$

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

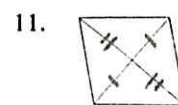
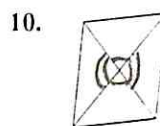
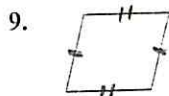
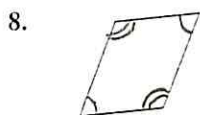
Find the values of the variables and the lengths of each of the sides.



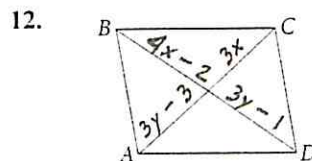
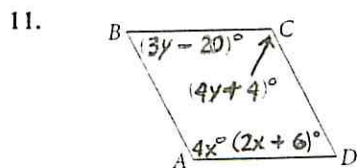
Find the measure of each angle in the parallelogram. Each angle found must have work or a theorem.



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



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



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

