35. Find the measure of a and the value of each angle in the parallelogram:

Q, R, $(4a - 12)^\circ$, $12a^\circ$, $3a^\circ$, P, S
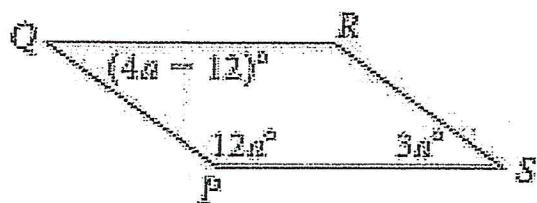
36. Find the values of the variables in the parallelogram:
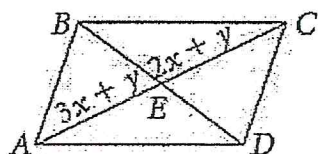

B, C, $2x$, $5y - 7$, E, A, D
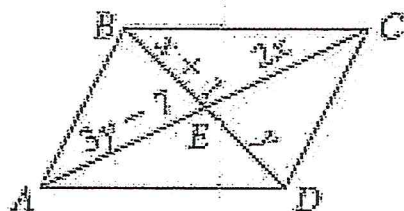
37. Name all quadrilaterals with the following properties:

a.) Diagonals are perpendicular.

b.) Only one pair of parallel sides.

38. ABCD is a parallelogram. Determine the value of x and y.

$AC = 4x + 10$

B, C, $2x + y$, $3x + y$, E, A, D

39. Use the parallelogram at the right for the following
a) Find the indicated segment length or angle measure.

JM   ML   m∠L   m∠J

J, $3x - 4$, K, $9y^\circ$, $2x$, $x + 5$, M, $(7y + 28)^\circ$, L
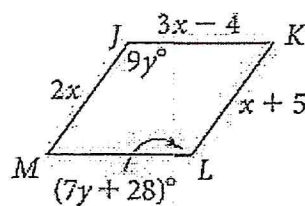
b) The measures of three angles in a parallelogram
are 20, 160, and 20. Find the measure of the
fourth angle.

c) The measures of two angles in a parallelogram are 32 and 32. Find the
measure of one of the other two angles.

d) Two consecutive angles in a parallelogram have measures $x + 5$ and
$4x - 10$. Find the measure of the smaller angle.