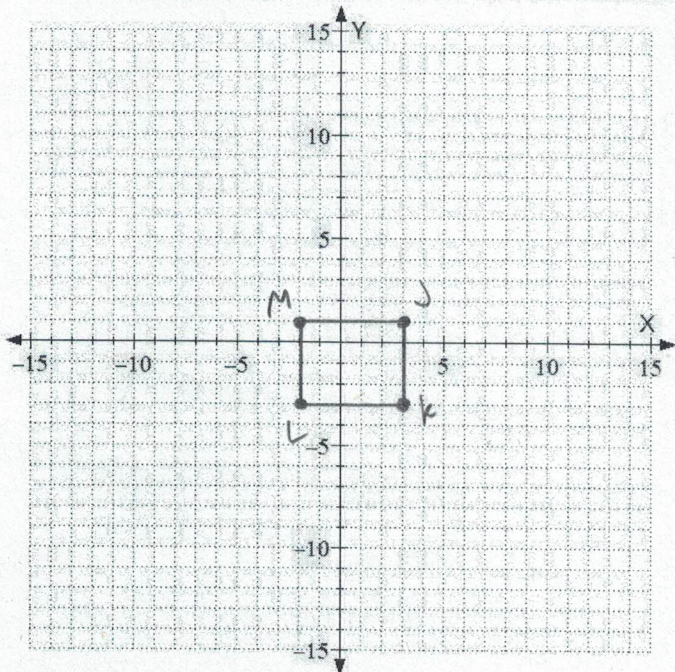


57. $J(3, 1), K(3, -3), L(-2, -3), M(-2, 1)$



SLOPES

$$\overline{MJ} + \overline{LK} = \frac{0}{5} = 0$$

$$\overline{ML} + \overline{JK} = \frac{4}{0} = \text{UNDEFINED}$$

DISTANCES / SIDE LENGTHS

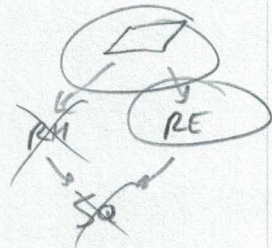
$$\overline{MJ} + \overline{LK} = 5$$

$$\overline{ML} + \overline{JK} = 4$$

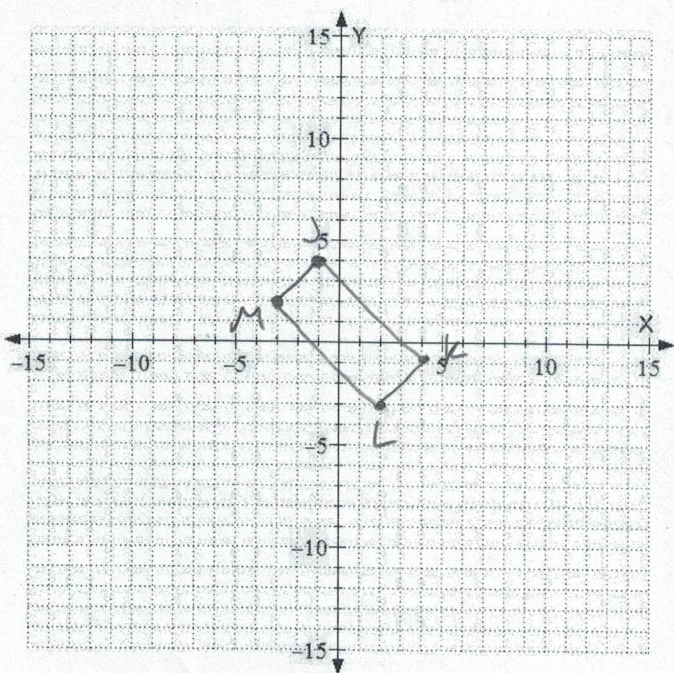
- OPPOSITE SIDES \cong \parallel \rightarrow
- CONSEC. SIDES OPP. RECIP. \rightarrow RECTANGLE
- ALL SIDES NOT \cong \rightarrow NOT RHOMBUS

RECTANGLE

ALSO, DIAGONALS \cong
(BOTH $\sqrt{5^2+4^2} = \sqrt{41}$)



58. $J(-1, 4), K(-3, 2), L(2, -3), M(4, -1)$



SLOPES

$$\overline{MJ} + \overline{LK} = \frac{2}{2} = 1$$

$$\overline{JK} + \overline{ML} = \frac{-5}{5} = -1$$

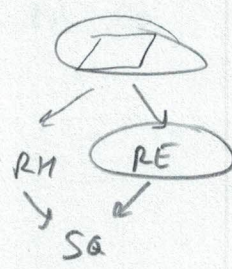
DISTANCES / SIDE LENGTHS

$$\overline{MJ} + \overline{LK} = \sqrt{2^2+2^2} = \sqrt{8}$$

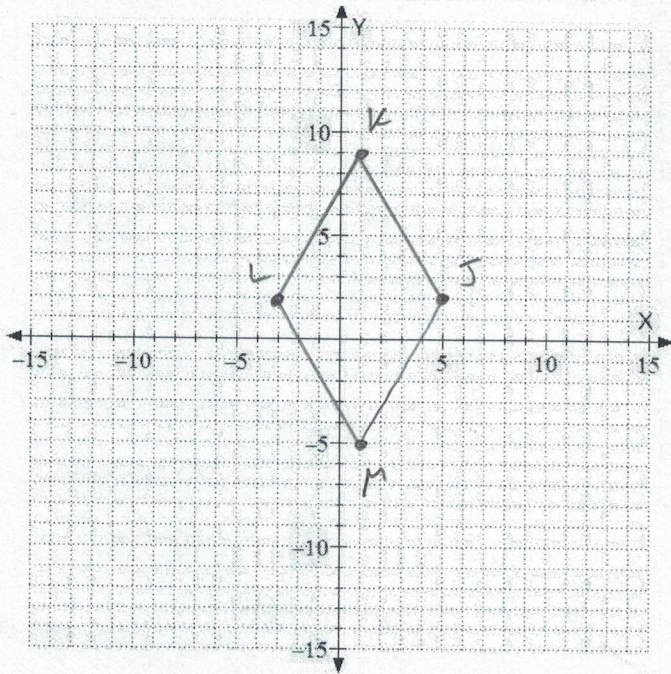
$$\overline{JK} + \overline{ML} = \sqrt{5^2+5^2} = \sqrt{50}$$

- OPPOSITE SIDES \cong \parallel \rightarrow
- CONSEC. SIDES OPP. RECIP. \rightarrow RECTANGLE
- ALL SIDES NOT \cong \rightarrow NOT RHOMBUS

RECTANGLE



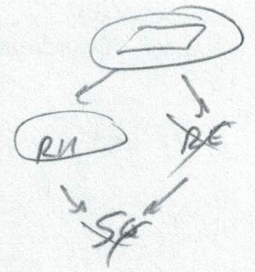
59. $J(5, 2), K(1, 9), L(-3, 2), M(1, -5)$



SLOPES:

$$\overline{LK} + \overline{MJ} = \frac{2}{4}$$

$$\overline{KT} + \overline{LM} = -\frac{2}{4}$$



DISTANCES / SIDE LENGTHS

$$\text{ALL 4 SIDES} = \sqrt{4^2 + 7^2} = \sqrt{65}$$

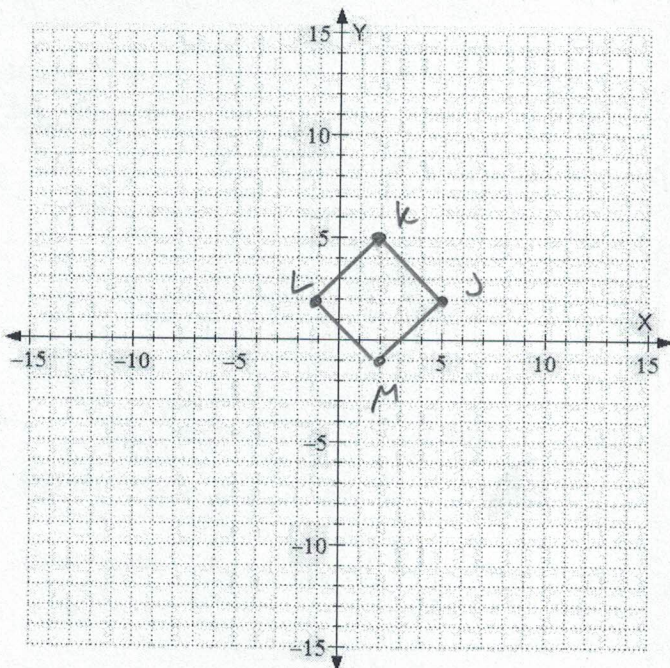
- OPPOSITE SIDES \cong // \rightarrow

- ALL SIDES \cong \rightarrow RHOMBUS

- CONSEC. SIDES NOT OPP. RECIP \rightarrow NOT RECTANGLE

RHOMBUS

60. $J(5, 2), K(2, 5), L(-1, 2), M(2, -1)$



SLOPES

$$\overline{LK} + \overline{MJ} = \frac{3}{3} = 1$$

$$\overline{KT} + \overline{LM} = -\frac{3}{3} = -1$$

DISTANCES / SIDE LENGTHS

$$\text{ALL 4 SIDES} = \sqrt{3^2 + 3^2} = \sqrt{18}$$

- OPPOSITE SIDES \cong // \rightarrow

- ALL SIDES \cong \rightarrow RHOMBUS

- CONSEC. SIDES OPP. RECIP \rightarrow RECTANGLE

SQUARE