

Distance Formula - Quadrilaterals

- 1) Show that the points $K(-2, -7)$, $L(0, -7)$, $M(0, -9)$ and $N(-2, -9)$ are the vertices of a square.
-

- 2) Show that the points _____ s of a parallelogram.

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- 3) Show that the points _____ rhombus.

- 4) Show that the points $U(-7, 2)$, $V(-4, 2)$, $W(-4, -2)$ and $X(-7, -2)$ are the vertices of a rectangle.
-

Distance Formula - Quadrilaterals

- 1) Show that the points $K(-2, -7)$, $L(0, -7)$, $M(0, -9)$ and $N(-2, -9)$ are the vertices of a square.

$$KL = LM = MN = NK = 2 \text{ units}$$

$$KM = LN = \sqrt{8} \text{ units}$$

Four sides are equal and diagonals are also equal.

The points $K(-2, -7)$, $L(0, -7)$, $M(0, -9)$ and $N(-2, -9)$ form a square.

- 2) Show that the points _____ s of a parallelogram.

$$DE = FG = 6 \text{ units}$$

$$DF = \sqrt{32} \text{ units}$$

Opposite sides _____

The points $D(-2, \dots)$

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- 3) Show that the points _____ rhombus.

$$PQ = QR = RS$$

$$PR = \sqrt{98} \text{ units}$$

Four sides are e _____

The points $P(1, \dots)$

- 4) Show that the points $U(-7, 2)$, $V(-4, 2)$, $W(-4, -2)$ and $X(-7, -2)$ are the vertices of a rectangle.

$$UV = WX = 3 \text{ units} ; UX = VW = 4 \text{ units}$$

$$UW = VX = 5 \text{ units}$$

Opposite sides are equal and diagonals are also equal.

The points $U(-7, 2)$, $V(-4, 2)$, $W(-4, -2)$ and $X(-7, -2)$ form a rectangle.
