

**Distance Formula - Quadrilaterals**

- 1) Show that the points  $E(-3, -5)$ ,  $F(-5, -4)$ ,  $G(-7, -5)$  and  $H(-5, -6)$  are the vertices of a rhombus.
- 

- 2) Show that the points \_\_\_\_\_ a parallelogram.

# PREVIEW

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- 3) Show that the points \_\_\_\_\_ ces of a square.

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

**Distance Formula - Quadrilaterals**

Sheet 3

- 1) Show that the points E(-3, -5), F(-5, -4), G(-7, -5) and H(-5, -6) are the vertices of a rhombus.

$$EF = FG = GH = HE = \sqrt{5} \text{ units}$$

$$EG = 4 \text{ units ; FH} = 2 \text{ units}$$

**Four sides are equal and diagonals are not equal.**

**The points E(-3, -5), F(-5, -4), G(-7, -5) and H(-5, -6) form a rhombus.**

- 2) Show that the points S(2, 3), T(8, 3), U(8, 7) and V(2, 7) are the vertices of a parallelogram.

$$SV = TU = 6 \text{ units}$$

$$SU = \sqrt{34} \text{ units}$$

**Opposite sides are equal.**

**The points S(2, 3), T(8, 3), U(8, 7) and V(2, 7) form a parallelogram.**

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- 3) Show that the points P(4, 4), Q(4, 8), R(8, 8) and S(8, 4) are the vertices of a square.

$$PQ = QR = RS = SP = 4 \text{ units}$$

$$PR = QS = \sqrt{50} \text{ units}$$

**Four sides are equal and diagonals are also equal.**

**The points P(4, 4), Q(4, 8), R(8, 8) and S(8, 4) form a square.**

- 4) Show that the points K(-9, 7), L(-2, 7), M(-2, 9) and N(-9, 9) are the vertices of a rectangle.

$$KL = MN = 7 \text{ units ; LM} = KN = 2 \text{ units}$$

$$KM = LN = \sqrt{53} \text{ units}$$

**Opposite sides are equal and diagonals are also equal.**

**The points K(-9, 7), L(-2, 7), M(-2, 9) and N(-9, 9) form a rectangle.**