

**Distance Formula - Quadrilaterals**

Sheet 2

- 1) Show that the points  $S(4, -5)$ ,  $T(4, -8)$ ,  $U(8, -8)$  and  $V(8, -5)$  are the vertices of a rectangle.
- 

- 2) Show that the points \_\_\_\_\_ are the vertices of a square.

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- 3) Show that the points \_\_\_\_\_ are the vertices of a parallelogram.
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- 4) Show that the points  $P(6, 3)$ ,  $Q(10, 5)$ ,  $R(6, 7)$  and  $S(2, 5)$  are the vertices of a rhombus.
-

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Sheet 2

- 1) Show that the points  $S(4, -5)$ ,  $T(4, -8)$ ,  $U(8, -8)$  and  $V(8, -5)$  are the vertices of a rectangle.

$$SV = TU = 4 \text{ units ; } ST = UV = 3 \text{ units}$$

$$SU = TV = 5 \text{ units}$$

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

**The points  $S(4, -5)$ ,  $T(4, -8)$ ,  $U(8, -8)$  and  $V(8, -5)$  form a rectangle.**

- 2) Show that the points \_\_\_\_\_ are the vertices of a square.

$$KL = LM = MN$$

$$KM = LN = \sqrt{32}$$

**Four sides are equal**

**The points  $K(-3, \dots)$**

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- 3) Show that the points \_\_\_\_\_ are the vertices of a parallelogram.

$$AB = CD = 5 \text{ units}$$

$$AC = 5 \text{ units ;}$$

**Opposite sides are equal**

**The points  $A(-8, \dots)$**

**Parallelogram.**

- 4) Show that the points  $P(6, 3)$ ,  $Q(10, 5)$ ,  $R(6, 7)$  and  $S(2, 5)$  are the vertices of a rhombus.

$$PQ = QR = RS = SP = \sqrt{20} \text{ units}$$

$$PR = 4 \text{ units ; } QS = 8 \text{ units}$$

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

**The points  $P(6, 3)$ ,  $Q(10, 5)$ ,  $R(6, 7)$  and  $S(2, 5)$  form a rhombus.**