

Distance Formula - Quadrilaterals

- 1) Show that the points $A(1, 3)$, $B(4, 3)$, $C(4, 6)$ and $D(1, 6)$ are the vertices of a square.
-

- 2) Show that the points _____ vertices of a rectangle.

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- 3) Show that the points _____ of a rhombus.

- 4) Show that the points $S(-3, 4)$, $T(-7, 4)$, $U(-8, 2)$ and $V(-4, 2)$ are the vertices of a parallelogram.
-

Distance Formula - Quadrilaterals

- 1) Show that the points A(1, 3), B(4, 3), C(4, 6) and D(1, 6) are the vertices of a square.

$$AB = BC = CD = DA = 3 \text{ units}$$

$$AC = BD = \sqrt{18} \text{ units}$$

Four sides are equal and diagonals are also equal.

The points A(1, 3), B(4, 3), C(4, 6) and D(1, 6) form a square.

- 2) Show that the points P(-4, 3), Q(0, 3), R(-4, 6) and S(0, 6) are the vertices of a rectangle.

$$PQ = RS = 3 \text{ units}$$

$$PR = SQ = \sqrt{34} \text{ units}$$

Opposite sides are equal.

The points P(-4, 3), Q(0, 3), R(-4, 6) and S(0, 6) form a rectangle.

- 3) Show that the points K(2, 2), L(2, 5), M(5, 5) and N(5, 2) are the vertices of a rhombus.

$$KL = LM = MN = NK = 3 \text{ units}$$

$$KM = 2 \text{ units} ; LN = 2 \text{ units}$$

Four sides are equal and diagonals are not equal.

The points K(2, 2), L(2, 5), M(5, 5) and N(5, 2) form a rhombus.

- 4) Show that the points S(-3, 4), T(-7, 4), U(-8, 2) and V(-4, 2) are the vertices of a parallelogram.

$$ST = UV = 4 \text{ units} ; SV = TU = \sqrt{5} \text{ units}$$

$$SU = \sqrt{29} \text{ units} ; TV = \sqrt{13} \text{ units}$$

Opposite sides are equal and diagonals are not equal.

The points S(-3, 4), T(-7, 4), U(-8, 2) and V(-4, 2) form a parallelogram.

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