

Distance Formula - Quadrilaterals

- 1) Show that the points $A(0, 9)$, $B(8, 9)$, $C(-3, 3)$ and $D(5, 3)$ are the vertices of a parallelogram.
-

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

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

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

Distance Formula - Quadrilaterals

- 1) Show that the points A(0, 9), B(8, 9), C(5, 3) and D(-3, 3) are the vertices of a parallelogram.

$$AB = CD = 8 \text{ units ; } AD = BC = \sqrt{45} \text{ units}$$

$$AC = \sqrt{61} \text{ units ; } BD = \sqrt{157} \text{ units}$$

Opposite sides are equal and diagonals are not equal.

The points A(0, 9), B(8, 9), C(-3, 3) and D(5, 3) form a parallelogram.

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

$$RS = ST = TU :$$

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

Four sides are e

The points R(-2

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- 3) Show that the points _____ ices of a rectangle.

$$WZ = XY = 3 \text{ u}$$

$$WY = ZX = \sqrt{58}$$

Opposite sides

The points W(-4

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

$$EF = FG = GH = HE = 11 \text{ units}$$

$$EG = FH = \sqrt{242} \text{ units}$$

Four sides are equal and diagonals are also equal.

The points E(-6, 6), F(5, 6), G(5, -5) and H(-6, -5) form a square.
