Distance Formula - Quadrilaterals

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 _____ es of a square.

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3) Show that the points _____ ertices of a 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.

Answer key

Distance Formula - Quadrilaterals

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 units ; ST = UV = 3 units

SU = TV = 5 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 _____ es of a square.

KL = LM = MN

KM = LN = $\sqrt{32}$

Four sides are e

The points K(–3,

3) Show that the points _____ ertices of a parallelogram.

AB = CD = 5 u

AC = 5 units ;

Opposite sides a

The points A(–8,_____llelogram.

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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.

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

PR = 4 units ; QS = 8 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.