

Distance Formula - Triangles

- 1) Show that the points $X(-6, -6)$, $Y(6, 6)$ and $Z(-6\sqrt{3}, 6\sqrt{3})$ form an equilateral triangle.
-

- 2) Show that the points _____ angle.

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- 3) Prove that the points _____ isosceles triangle.

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- 4) Show that the points $U(-9, 1)$, $V(-3, 1)$ and $W(-9, 5)$ are the vertices of a right triangle.
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Distance Formula - Triangles

- 1) Show that the points $X(-6, -6)$, $Y(6, 6)$ and $Z(-6\sqrt{3}, 6\sqrt{3})$ form an equilateral triangle.

$$XY = \sqrt{288} \text{ units} ; YZ = \sqrt{288} \text{ units} ; ZX = \sqrt{288} \text{ units}$$

$$XY = YZ = ZX$$

The points $X(-6, -6)$, $Y(6, 6)$ and $Z(-6\sqrt{3}, 6\sqrt{3})$ form an equilateral triangle.

- 2) Show that the points _____ angle.

$$AB = \sqrt{25} \text{ units}$$

$$AB \neq BC \neq CA$$

The points $A(-8$

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- 3) Prove that the points _____

$$QR = \sqrt{16} \text{ units}$$

$$RS = SQ$$

The points $Q(3,$

- 4) Show that the points $U(-9, 1)$, $V(-3, 1)$ and $W(-9, 5)$ are the vertices of a right triangle.

$$UV = \sqrt{36} \text{ units} ; VW = \sqrt{52} \text{ units} ; WU = \sqrt{16} \text{ units}$$

$$UV^2 = 36 \text{ units} ; VW^2 = 52 \text{ units} ; WU^2 = 16 \text{ units}$$

$$UV^2 + WU^2 = VW^2$$

The points $U(-9, 1)$, $V(-3, 1)$ and $W(-9, 5)$ form a right triangle.
