

**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.
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- 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.**

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- 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 \_\_\_\_\_ isosceles triangle.

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

$$RS = SQ$$

**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.**

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