

Distance Formula - Triangles

Sheet 3

- 1) Prove that the points $U(-7, 3)$, $V(-5, 3)$ and $W(-6, 5)$ are the vertices of an isosceles triangle.
-

- 2) Show that the points _____ al triangle.

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- 3) Show that the points _____ t triangle.

- 4) Show that the points $R(1, -9)$, $S(1, -6)$ and $T(5, -9)$ form a scalene triangle.
-

Distance Formula - Triangles

- 1) Prove that the points $U(-7, 3)$, $V(-5, 3)$ and $W(-6, 5)$ are the vertices of an isosceles triangle.

$$UV = \sqrt{4} \text{ units} ; VW = \sqrt{5} \text{ units} ; WU = \sqrt{5} \text{ units}$$

$$VW = WU$$

The points $U(-7, 3)$, $V(-5, 3)$ and $W(-6, 5)$ form an isosceles triangle.

- 2) Show that the points _____ al triangle.

$$AB = \sqrt{128} \text{ uni}$$

$$AB = BC = CA$$

The points $A(-4$

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- 3) Show that the points _____ t triangle.

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

$$EF^2 = 16 \text{ units}$$

$$FG^2 + GE^2 = EF^2$$

The points $E(8,$

- 4) Show that the points $R(1, -9)$, $S(1, -6)$ and $T(5, -9)$ form a scalene triangle.

$$RS = \sqrt{9} \text{ units} ; ST = \sqrt{25} \text{ units} ; TR = \sqrt{16} \text{ units}$$

$$RS = 3 \text{ units} ; ST = 5 \text{ units} ; TR = 4 \text{ units}$$

$$RS \neq TR \neq ST$$

The points $R(1, -9)$, $S(1, -6)$ and $T(5, -9)$ form a scalene triangle.
