

# Distance Formula | Types of Triangles

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1) Show that the points  $P(-8, 7)$ ,  $Q(-5, 8)$ , and  $R(-6, 2)$  form a scalene triangle.

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2) Show that the points  $D(-3\sqrt{3}, 3\sqrt{3})$ ,  $E(3, 3)$ , and  $F(-3, -3)$  form an equilateral triangle.

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3) Show that the points  $S(-1, -3)$ ,  $T(-1, -7)$ , and  $U(3, -7)$  are the vertices of a right triangle.

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4) Prove that the points  $W(3, 0)$ ,  $X(5, 3)$ , and  $Y(3, 6)$  are the vertices of an isosceles triangle.

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