

PAC Chart:

<u>DATA GIVEN</u>	<u>REQUIRED RESULT(S)</u>
→ x-Coordinate of Point. → y-Coordinate of Point.	→ Quadrant the point lies in.
<u>REQUIRED PROCESSING</u>	<u>SOLUTION ALTERNATIVE(S)</u>
→ Check the sign of x-Coordinate, → Check the sign of y-Coordinate, → Use the signs of coordinates to figure out its Quadrant: 1) In Quadrant I, both x and y are positive, 2) In Quadrant II, x is negative, and y is positive, 3) In Quadrant III, both x and y are negative, 4) In Quadrant IV, x is positive, and y is negative.	→ In case any of the coordinates is 0, it would mean that the point lies on either x-Axis or y-Axis.

IPO Chart:

<u>INPUT</u>	<u>PROCESS</u>	<u>MODULE REFERENCE</u>	<u>OUTPUT</u>
→ x-coordinate → y-coordinate	→ Enter x → Enter y → If both x and y positive, output Q1 → If x positive and y negative, output Q4 → If x negative and y positive, output Q2 → If both x and y negative, output Q3 → Otherwise output "Axes"	→ INPUT → INPUT → IF → PRINT → ELSEIF → PRINT → ELSEIF → PRINT → ELSEIF → PRINT → ELSE → PRINT	→ Quadrant or Axes