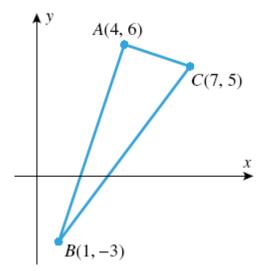
Name: _____

The Distance and Midpoint Formulas

- 1) If Q(0, 1) is equidistant from P(5, -3) and R(x, 6), find the values of x.
- 2) Find the values of y for which the distance between the points P(2, -3) and Q(10, y) is 10 units.
- 3) Find the point on the x-axis which is equidistant from (2, -5) and (-2, 9).
- 4) Use the Midpoint Formula to find the three points that divide the line segment joining (-8,-12) and (12, 8) into four equal parts.
- 5) Show that the points A(4, 6), B(1,-3), and C(7, 5) are vertices of a right triangle.



6) Find the distance between each couple of points plotted on the given Cartesian system

