The Equation of Perpendicular Bisectors

1.   Find the equation of the perpendicular bisector of each set of points shown.
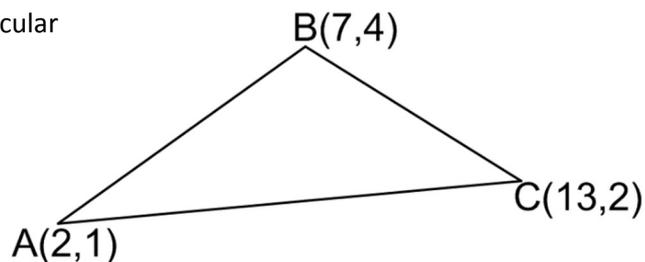
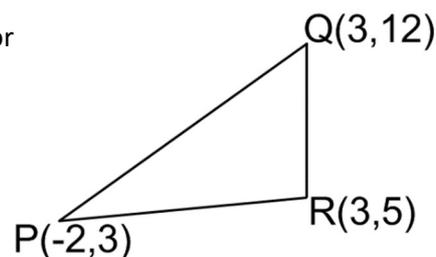(a) (3, 5) and (8, 15)   (b) (2, 1) and (4, 2)
(c) (-2, 4) and (3, -1)   (d) (-8, 5) and (6, 7)

2.   In triangle ABC, calculate the perpendicular
bisector of the line BC.

3.   In triangle PQR, calculate the perpendicular bisector
of the line QR.

4.   In triangle XYZ,
(a) Calculate the perpendicular bisector of XY.
(b) Calculate the perpendicular bisector of YZ.
(c) Find the point of intersection of these two perpendicular bisectors.