



Geometry Lab Recording Sheet

(Use with Extend 3-4 on page 204 in the Student Edition)

Equations of Perpendicular Bisectors

Materials

grid paper

Exercises

Find the equation of the perpendicular bisector \overline{PQ} for the given endpoints.

1. $P(5, 2), Q(7, 4)$ 2. $P(-3, 9), Q(-1, 5)$ 3. $P(-6, -1), Q(8, 7)$

4. $P(-2, 1), Q(0, -3)$ 5. $P(0, 1.6), Q(0.5, 2.1)$ 6. $P(-7, 3), Q(5, 3)$

7. Extend what you have learned to find the equations of the lines that contain the sides of $\triangle XYZ$ with vertices $X(-2, 0)$, $Y(1, 3)$, and $Z(3, -1)$.