



**Step 2.** Find the median  $x$ -values and the median  $y$ -values for the first and third groups of data and name these points  $M_1$  and  $M_3$  respectively.

$$M_1 = (x_1, y_1) = ( \quad , \quad )$$

$$M_3 = (x_3, y_3) = ( \quad , \quad )$$

**Step 3.** Find the slope of the line going through points  $M_1$  and  $M_3$ . This slope will be the slope of the median-median line.

$$b = \frac{y_3 - y_1}{x_3 - x_1} =$$

**Step 4.** Using the slope found in Step 3, find the slope-intercept equation of the lines going through points  $M_1$  and  $M_3$  respectively (the  $y$ -intercepts through for lines through  $M_1$  and  $M_3$  are the same).

$$y = y_1 + b(x - x_1)$$

$$y = y_3 + b(x - x_3)$$

$$a_1 =$$

$$a_3 =$$

**Step 5.** Find the median  $x$ -value and the median  $y$ -value for the second group of data and name this point  $M_2$ .

$$M_2 = (x_2, y_2) = ( \quad , \quad )$$

**Step 6.** Using the slope found in step 3, find the slope-intercept equation of the line going through  $M_2$ .

$$y = y_2 + b(x - x_2)$$

$$a_2 =$$

**Step 7.** Find the  $y$ -intercept of the median-median line by taking the mean of the  $y$ -intercepts of the lines going through  $M_1$ ,  $M_2$  and  $M_3$  (the  $y$ -intercepts through  $M_1$  and  $M_3$  are the same).

$$a = \frac{a_1 + a_2 + a_3}{3} =$$

**Step 8.** Write the slope-intercept equation of the median-median line using the slope found in Step 3 and the  $y$ -intercept found in Step 7.