

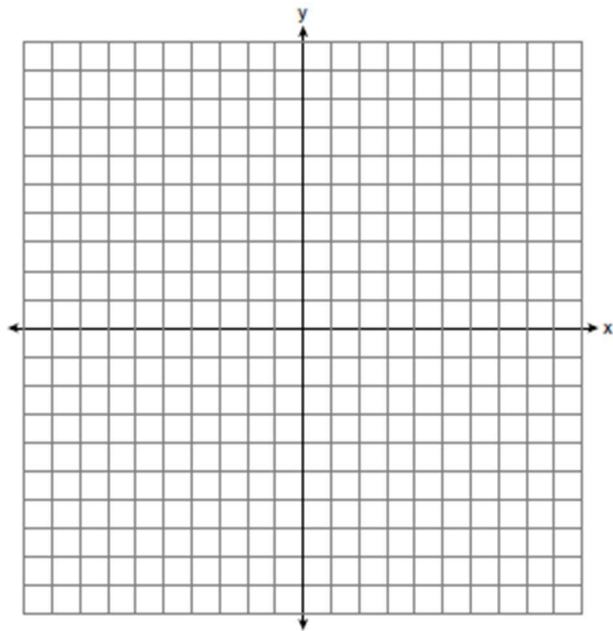
Name \_\_\_\_\_  
Mr. Schlansky

Date \_\_\_\_\_  
Geometry

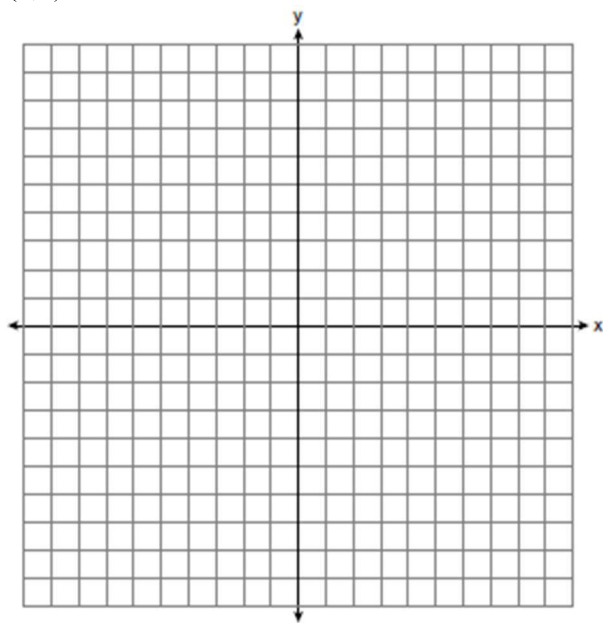


## *Perpendicular Bisector*

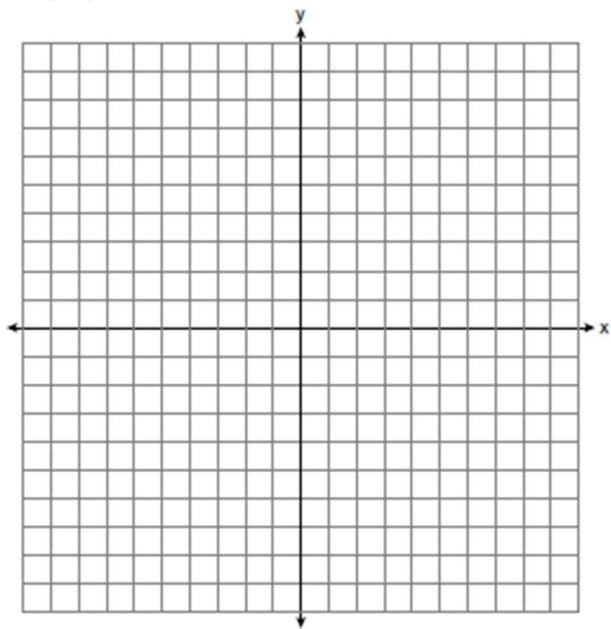
1. Write an equation of the perpendicular bisector of the line segment whose endpoints are (3,5) and (5,9).



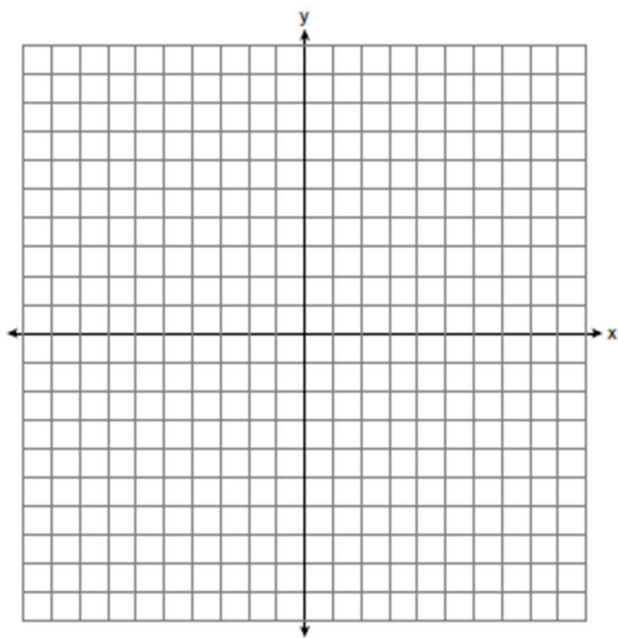
2. Write an equation of the perpendicular bisector of the line segment whose endpoints are (-1,5) and (1,1).



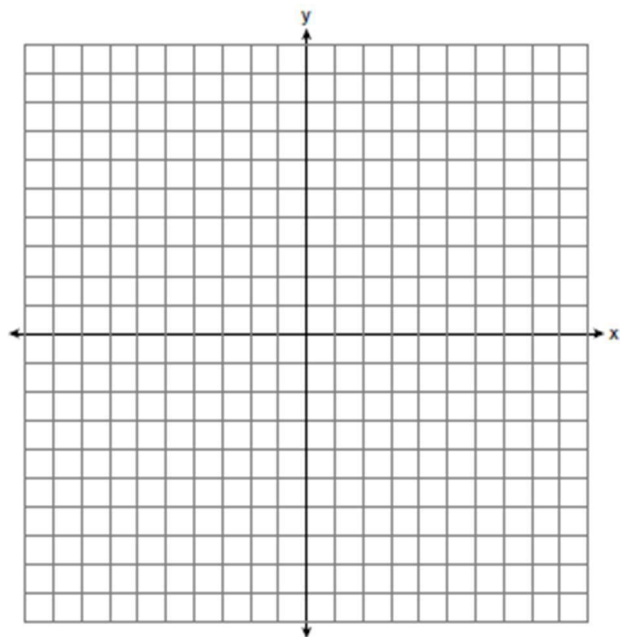
3. Write an equation of the perpendicular bisector of the line segment whose endpoints are  $(-4,2)$  and  $(2,6)$ .



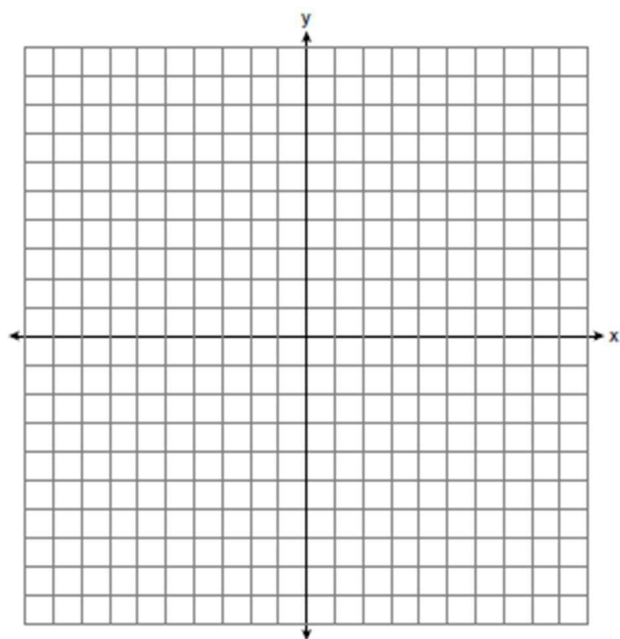
4. Write an equation of the perpendicular bisector of the line segment whose endpoints are  $(-4,3)$  and  $(4,5)$



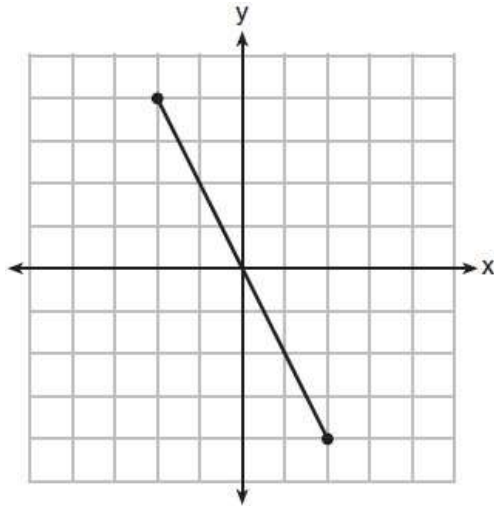
5. Write an equation of the perpendicular bisector of the line segment whose endpoints are  $(-8,4)$  and  $(2,2)$



6. Write an equation of the perpendicular bisector of the line segment whose endpoints are  $(-1, 1)$  and  $(7, -5)$ .



7. What is an equation of the perpendicular bisector of the line segment shown in the diagram below?



- 1)  $y + 2x = 0$
- 2)  $y - 2x = 0$
- 3)  $2y + x = 0$
- 4)  $2y - x = 0$

8. Line segment  $NY$  has endpoints  $N(-11, 5)$  and  $Y(5, -7)$ . What is the equation of the perpendicular bisector of  $\overline{NY}$ ?

- 1)  $y + 1 = \frac{4}{3}(x + 3)$
- 2)  $y + 1 = -\frac{3}{4}(x + 3)$
- 3)  $y - 6 = \frac{4}{3}(x - 8)$
- 4)  $y - 6 = -\frac{3}{4}(x - 8)$

