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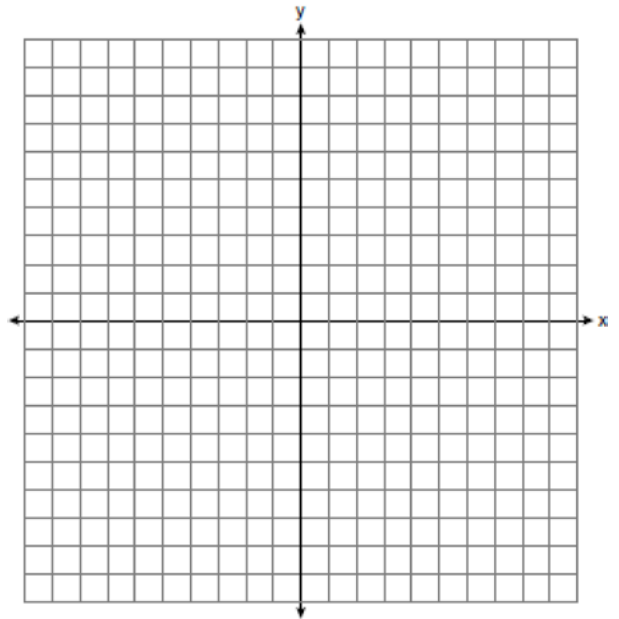
- 1 The coordinates of the endpoints of \overline{AB} are $A(0,0)$ and $B(0,6)$. The equation of the perpendicular bisector of \overline{AB} is
- 1) $x = 0$
 - 2) $x = 3$
 - 3) $y = 0$
 - 4) $y = 3$

- 2 Which equation represents the perpendicular bisector of \overline{AB} whose endpoints are $A(8,2)$ and $B(0,6)$?
- 1) $y = 2x - 4$
 - 2) $y = -\frac{1}{2}x + 2$
 - 3) $y = -\frac{1}{2}x + 6$
 - 4) $y = 2x - 12$

- 3 Triangle ABC has vertices $A(0,0)$, $B(6,8)$, and $C(8,4)$. Which equation represents the perpendicular bisector of \overline{BC} ?
- 1) $y = 2x - 6$
 - 2) $y = -2x + 4$
 - 3) $y = \frac{1}{2}x + \frac{5}{2}$
 - 4) $y = -\frac{1}{2}x + \frac{19}{2}$

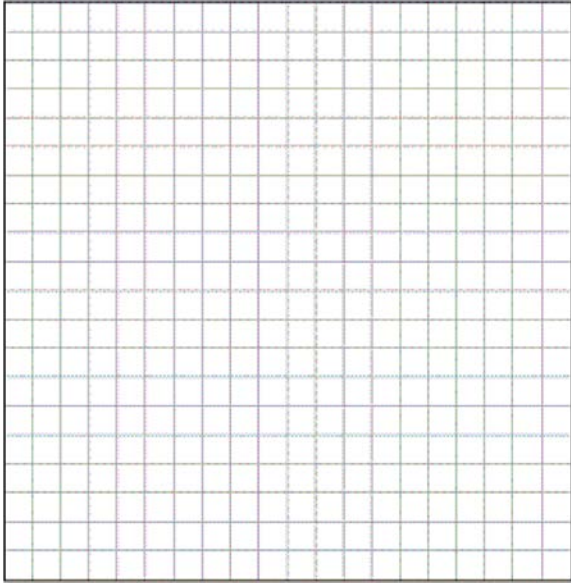
- 4 If \overline{AB} is defined by the endpoints $A(4,2)$ and $B(8,6)$, write an equation of the line that is the perpendicular bisector of \overline{AB} .

- 5 Write an equation of the line that is the perpendicular bisector of the line segment having endpoints $(3,-1)$ and $(3,5)$. [The use of the grid below is optional]



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- 6 Write an equation of the perpendicular bisector of the line segment whose endpoints are $(-1, 1)$ and $(7, -5)$. [The use of the grid below is optional]



- 7 Determine the distance between point $A(-1, -3)$ and point $B(5, 5)$. Write an equation of the perpendicular bisector of \overline{AB} . [The use of the accompanying grid is optional.]

