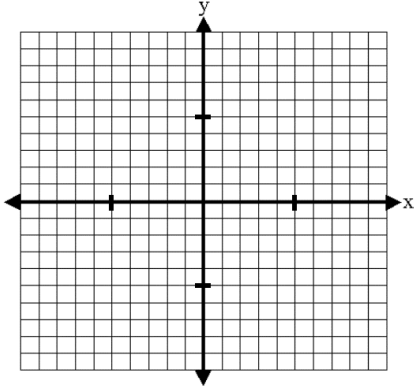
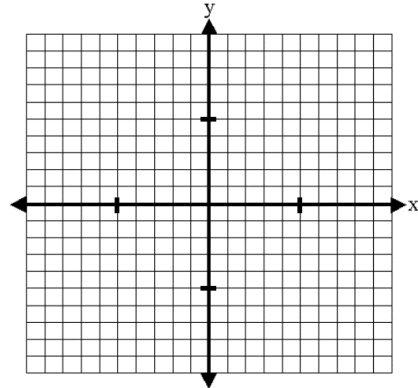


Find the ordered pair that represents the vector from  $A$  to  $B$ . Then find the magnitude of  $\overline{AB}$ .

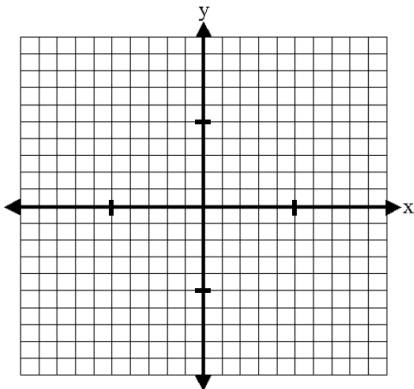
1.  $A(4, 2), B(2, 8)$



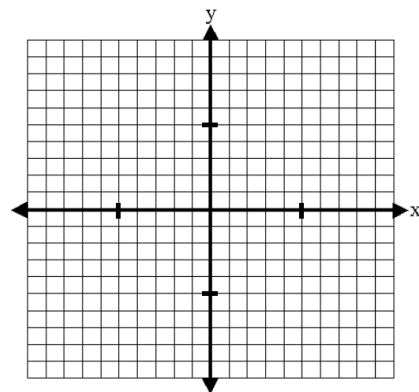
2.  $A(0, 4), B(3, 1)$



3.  $A(-4, 0), B(1, 9)$



4.  $A(-5, 7), B(-1, 2)$



5.  $A(12, -4), B(19, 1)$

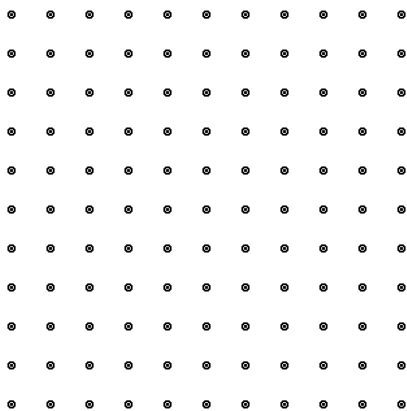
6.  $A(7, 6), B(8, 6)$

7.  $A(-9, 2), B(-4, -3)$

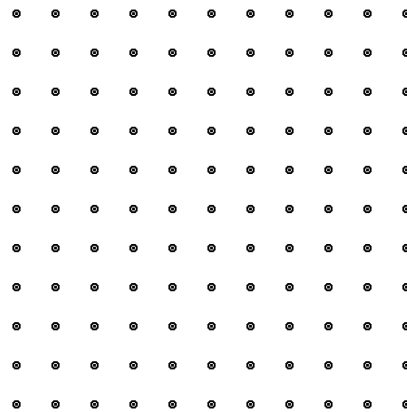
8.  $A(4, -5), B(5, -4)$

Find the ordered pair that represents  $\vec{u}$  in each equation if  $\vec{v} = \langle 4, -3 \rangle$  and  $\vec{w} = \langle -6, 2 \rangle$ .

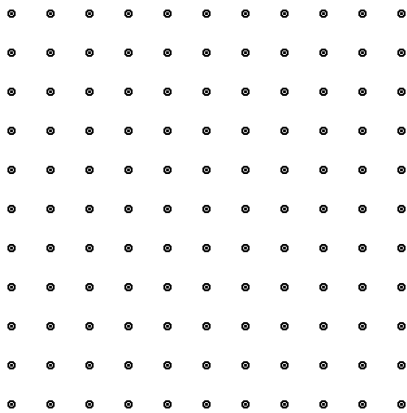
9.  $\vec{u} = \vec{v} + \vec{w}$



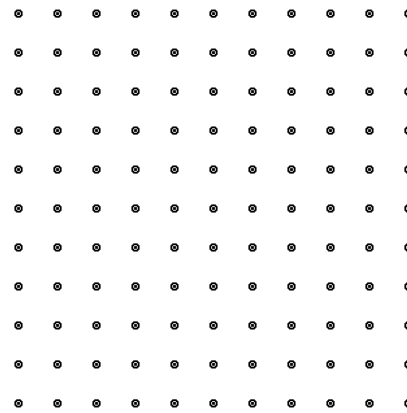
10.  $\vec{u} = \vec{v} - \vec{w}$



11.  $\vec{u} = 2\vec{w}$



12.  $\vec{u} = \vec{w} - 2\vec{v}$



13.  $\vec{u} = \vec{v} - 3\vec{w}$

14.  $\vec{u} = 2\vec{v} + 3\vec{w}$

15.  $\vec{u} = 4\vec{v} - 3\vec{w}$

16.  $\vec{u} = 6\vec{w} - 2\vec{v}$