

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

## *Midpoint*

**Find the midpoint of the segment formed by the following two points.**

1. (5,1) and (7,5)

2. (9,1) and (1,-5)

3. (2,5) and (-2,7)

4. (3,2) and (9,0)

5. (-4,1) and (-4, 9)

6. (10,-1) and (2, 4)

7. (-2,7) and (3, 5)

8. (9,-1) and (-1, 5)

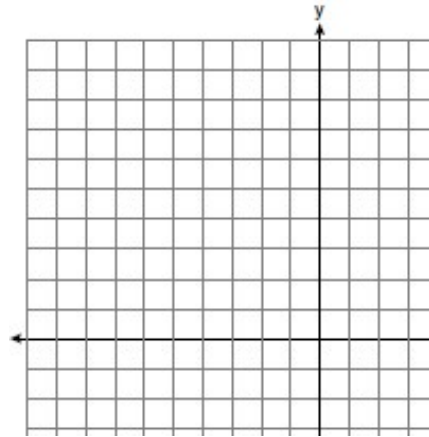
9. (-6,-3) and (-2, 1)

10. (-13,6) and (-1, 1)

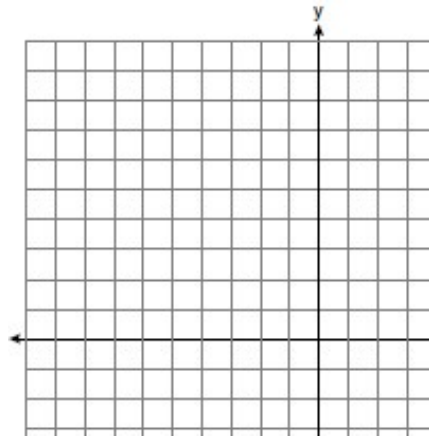
11. (-4,7) and (-2, 6)

12. (9,-2) and (-3, 8)

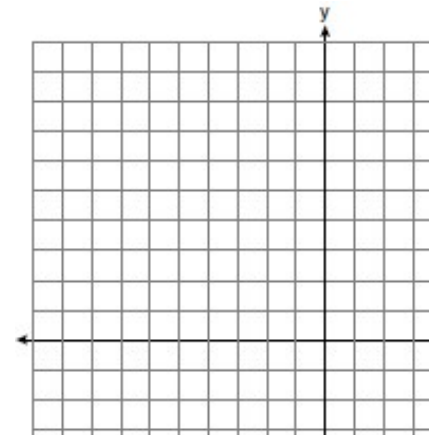
13. The midpoint of a line segment is  $(2,3)$ . If one endpoint of the segment is  $(0,0)$ , what is the other endpoint?



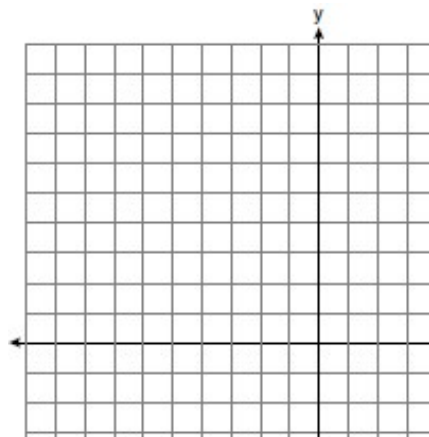
14. The midpoint  $M$  of  $\overline{AB}$  is  $(2,-1)$ . If the coordinates of  $A$  are  $(-1, 1)$ , what are the coordinates of  $B$ ?



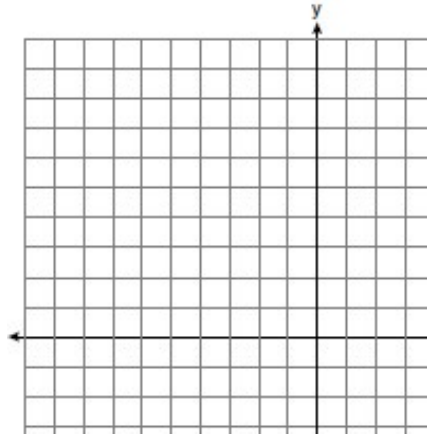
15. The midpoint  $M$  of  $\overline{XY}$  is  $(8,-6)$ . If the coordinates of  $X$  are  $(6, -9)$ , what are the coordinates of  $Y$ ?



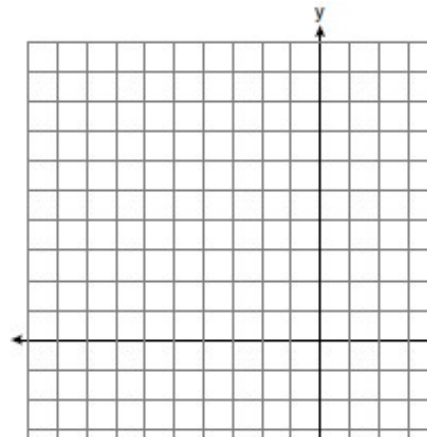
16. The midpoint  $M$  of  $\overline{QT}$  is  $(-7,3)$ . If the coordinates of  $Q$  are  $(-10, 9)$ , what are the coordinates of  $T$ ?



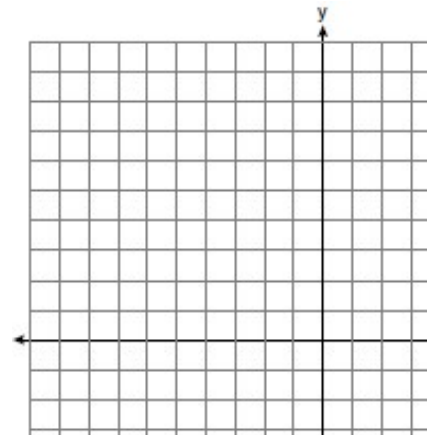
17. The midpoint  $M$  of  $\overline{YO}$  is  $(-4,2)$ . If the coordinates of  $Y$  are  $(3, -5)$ , what are the coordinates of  $O$ ?



18. The midpoint  $M$  of  $\overline{JK}$  is  $(7,-1)$ . If the coordinates of  $J$  are  $(4,2)$ , what are the coordinates of  $K$ ?



19. The midpoint  $M$  of  $\overline{XN}$  is  $(-6,-1)$ . If the coordinates of  $N$  are  $(-3, 3)$ , what are the coordinates of  $X$ ?



20. The midpoint  $M$  of  $\overline{PL}$  is  $(8,-1)$ . If the coordinates of  $P$  are  $(9, -4)$ , what are the coordinates of  $L$ ?

