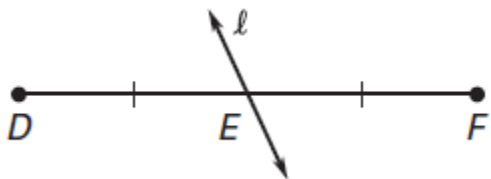


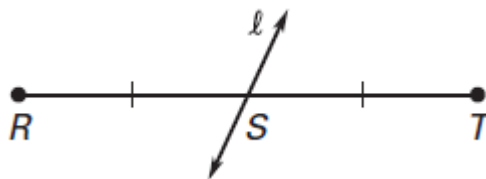
Name _____ Hour _____

Line ℓ bisects the segment. Find the indicated length.

1. Find DF if $EF = 17.6$ cm.



2. Find SR if $RT = 47.8$ in.

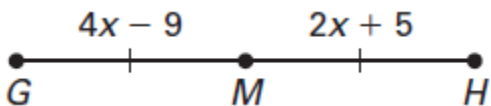


3. Point B bisects \overline{AC} . Find CA if $AB = 3.25$ ft.

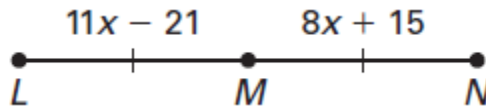
4. Point Y bisects \overline{XZ} . Find YZ if $ZX = 25.7$ mm.

In the diagram, M is the midpoint of the segment. Find the indicated length.

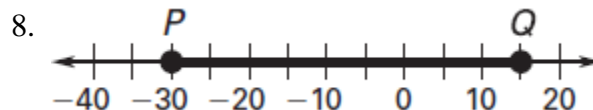
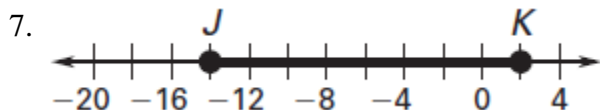
5. Find GH .



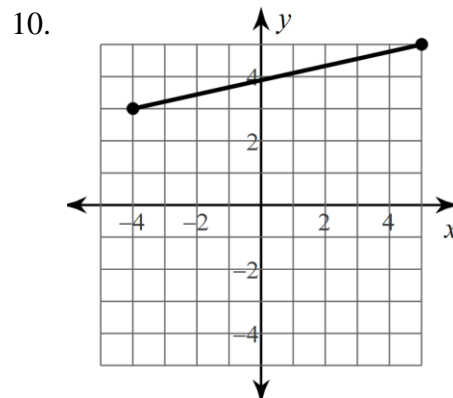
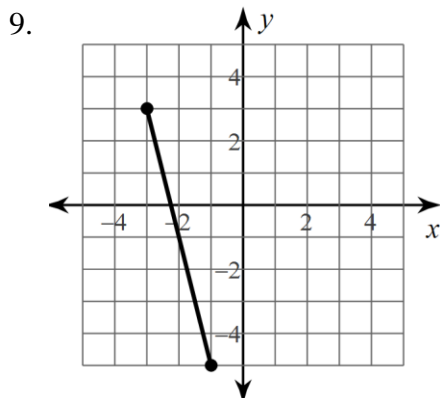
6. Find MN .



Find the length of the segment. Then find the coordinate of the midpoint of the segment.



Find the coordinates of the midpoint of the segment with the given endpoints.



Midpoints

Find the coordinates of the midpoint of the segment with the given endpoints.

11. $(-5,5)$ and $(7,3)$

12. $(4,0)$ and $(6,-1)$

13. $(-14,0)$ and $(-2,12)$

14. $(7,-17)$ and $(18,12)$

Find the coordinates of the other endpoint of a segment with the given endpoint E and midpoint M .

15. $E(6,0)$ and $M(0,1)$

16. $E(3,4)$ and $M(3,-2)$

17. $E(-5,3)$ and $M(4,9)$

18. $E(8,-10)$ and $M(4,-5)$

19. Point O is the midpoint of \overline{DG} . The coordinates of points D and G are $(-2,9)$ and $(24,3)$, respectively.
What are the coordinates of point O ?

20. Point A is the midpoint of \overline{CT} . The coordinates of points C and A are $(7,-4)$ and $(3,-6)$, respectively.
What are the coordinates of point T ?