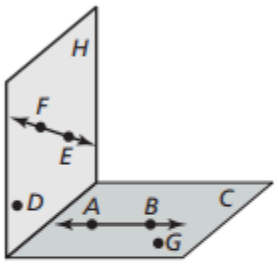
Math 1 Review Sections 8.1 - 8.5

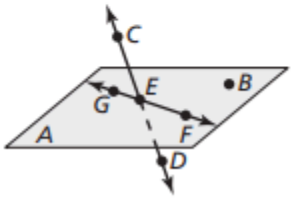
8.1 Practice B

In Exercises 1–4, use the diagram.



1. Name three points.
2. Name two lines.
3. Name all points in plane H.
4. Name the plane that contains points A, B, and G.

In Exercises 5–8, use the diagram.

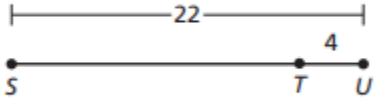


5. Name one pair of opposite rays.
6. Name two points that are collinear with point D.
7. Name the point of intersection of line CD with plane A.
8. Name a point that is *not* coplanar with plane A.

8.2 Practice B

In Exercises 5–7, find *ST*.

5.



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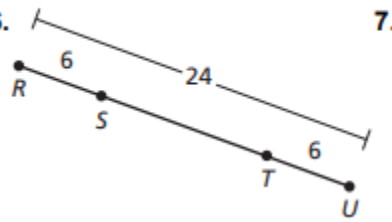

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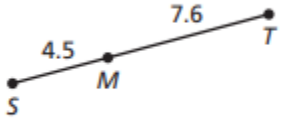


In Exercises 9 and 10, point *B* is between *A* and *C* on $\overline{AC}$. Use the information to write an equation in terms of *x*. Then solve the equation and find *AB*, *BC*, and *AC*.

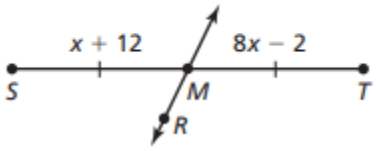
9. $AB = 13 + 2x$
   $BC = 12$
   $AC = x + 32$

10. $AB = 8x + 5$
    $BC = 5x - 9$
    $AC = 74$

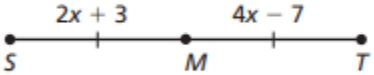
8.3 Practice A

In Exercises 3 and 4, identify the segment bisector of $\overline{ST}$. Then find *ST*.

3.



4.



In Exercises 7 and 8, the endpoints of $\overline{JK}$ are given. Find the coordinates of the midpoint *M*.

7. $J(-3, 2)$ and $K(9, 2)$

8. $J(1, 3)$ and $K(7, 5)$

In Exercises 9 and 10, the midpoint *M* and one endpoint of $\overline{AB}$ are given. Find the coordinates of the other endpoint.

9. $M(2, 5)$ and $A(2, 3)$

10. $M(-4, -4)$ and $B(-1, -1)$

11. The midpoint M and one endpoint of AB are given. Find the other endpoint.
A(5 , 2) M(4 , 7)

8.4 Practice A

For # 12 and 13, plot the points on a separate sheet of graph paper. Find the indicated measure.

#12 Find the area

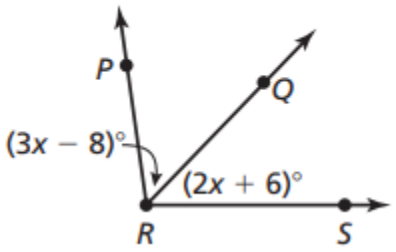
$T(0, -2), U(3, 5), V(-3, 5)$

#13 Find the perimeter

$A(-3, 3), B(-3, -1), C(4, -1), D(4, 3)$

8.5 Practice A

#14 $m\angle PRS = 98°$. Find $m\angle QRS$.



#15 Find x.