1.1-1.4 Review Homework
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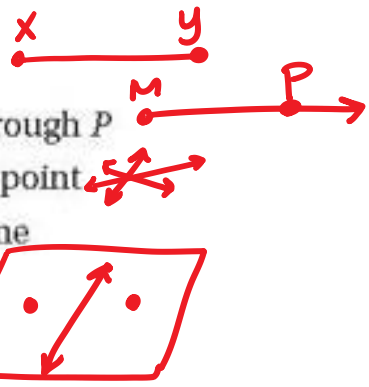
1-1 Understanding Points, Lines, and Planes

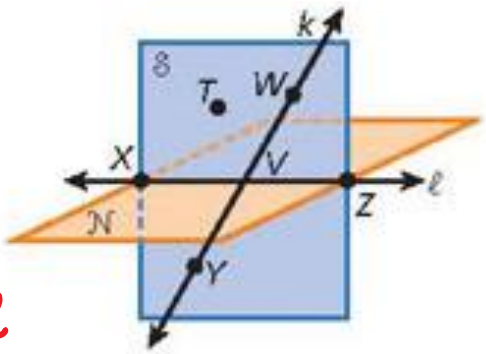
Draw and label each of the following.

1. a segment with endpoints X and Y
2. a ray with endpoint M that passes through P
3. three coplanar lines intersecting at a point
4. two points and a line that lie in a plane



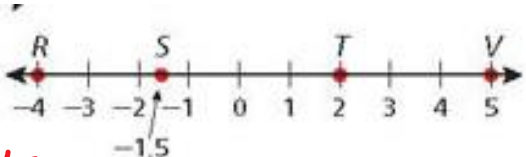
Use the figure to name each of the following.

5. three coplanar points W, V, Y
6. two lines $\overleftrightarrow{XZ}$ and $\overleftrightarrow{WY}$
7. a plane containing T, V, and X plane TVW
8. a line containing V and Z $\overleftrightarrow{XZ}$ or plane ℓ



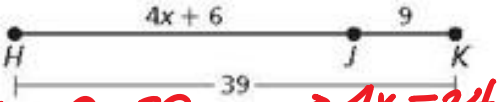
1-2 Measuring and Constructing Segments

Find the length of each segment.



9. $\overline{SV}$ $|5-1.5| = 6.5$ 10. $\overline{TR}$ $|2-4| = 6$ 11. $\overline{ST}$ $|2-1.5| = 3.5$

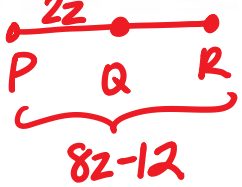
12. The diagram represents a straight highway with three towns, Henri, Joaquin, and Kenard. Find the distance from Henri H to Joaquin J.



$4x+6+9=39$
$4x+15=39$
$4x=24$
$x=6$
$\overline{HJ} = 4(6)+6$
$= 24+6$
$= 30$

13. Skip Draw, and construct a segment congruent to $\overline{CD}$.

14. Q is the midpoint of $\overline{PR}$, $PQ = 2z$, and $PR = 8z - 12$. Find z, PQ, and PR.



$2z + 2z = 8z - 12$
$4z = 8z - 12$
$12 = 4z$
$3 = z$

$\overline{PQ} = 2(3) = 6$
$\overline{PR} = 8(3) - 12 = 12$

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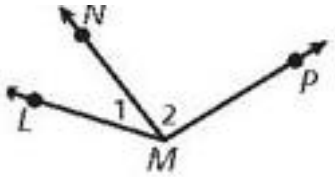
1-3 Measuring and Constructing Angles



15. Name all the angles in the diagram.

∠LMN, ∠NML, ∠1, ∠NMP, ∠PMN, ∠2, ∠M

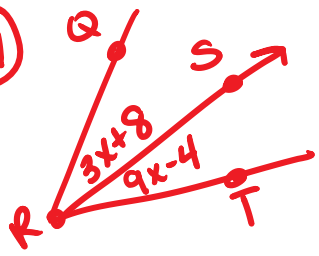
Classify each angle by its measure.

16. $m\angle PVQ = 21°$ acute 17. $m\angle RVT = 96°$ obtuse 18. $m\angle PVS = 143°$ obtuse

19. $\overrightarrow{RS}$ bisects $\angle QRT$, $m\angle QRS = (3x + 8)°$, and $m\angle SRT = (9x - 4)°$. Find $m\angle SRT$.

~~20.~~ Use a protractor and straightedge to draw a 130° angle. Then bisect the angle.

(19)



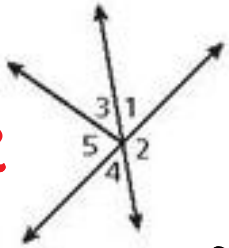
$3x + 8 = 9x - 4$
$12 = 6x$
$2 = x$

$m\angle SRT = 9(2) - 4$
$= 18 - 4$
$= 14°$

1-4 Pairs of Angles

Tell whether the angles are only adjacent, adjacent and form a linear pair, or not adjacent.

21. ∠1 and ∠2 LP 22. ∠4 and ∠5 adj. 23. ∠3 and ∠4 none



If $m\angle T = (5x - 10)°$, find the measure of each of the following.

24. supplement of ∠T $180 - (5x - 10)$
$180 - 5x + 10$
$190 - 5x$

25. complement of ∠T $90 - (5x - 10)$
$90 - 5x + 10$
$100 - 5x$