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Section 1.1-1.3 Review Extra Practice

## Use the diagram below to answer questions \#1 - 5.

1. Please give two other names for $\overleftrightarrow{U B}$.
2. Please give another name for Plane UBE.
3. Please give another name for $\overrightarrow{H B}$.
4. Please name the intersection of plane $S$ and $\overleftrightarrow{B X}$.
5. Please name three collinear points.


Plot the given points in a coordinate plane. Then determine whether the line segments named are congruent.
6. $A(2,2), B(4,2), C(-1,-1), D(-1,1)$;
$\overline{A B}$ and $\overline{C D}$

8. Find $N P$.

7. $E(-3,4), F(-1,4), G(2,4), H(-1,4)$; $\overline{E F}$ and $\overline{G H}$

9. Find $N O$.


Point $J$ is between $H$ and $K$ on $\overline{H K}$. Use the given information to write an equation in terms of $\boldsymbol{x}$. Solve the equation. Then find $H J$ and $J K$.
10. $H J=5 x-4$
$J K=8 x-10$
$K H=38$
11. $H J=5 x-3$
$J K=x-9$
$K H=5 x$

Find the coordinates of the midpoint of the segment with the given endpoints.
12. $A(6,-3)$ and $B(10,5)$
13. $M(14,7)$ and $N(-9,1)$
14. $Y(-13,8)$ and $Z(2,-10)$
15. $C(-5,-17)$ and $D(-18,12)$

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

17. Find $U V$.


Use the given endpoint $\mathbf{R}$ and midpoint M of $\overline{\boldsymbol{R S}}$ to find the coordinates of the other endpoints.
18. R $(6,0)$, $M(0,2)$

19. R (3,4), M (3, -2)


Find the length of the segment. Round to the nearest tenth of a unit.
20.

21.


The endpoints of two segments are given. Find each segment length. Tell whether the segments are congruent.
22. $\overline{A B}: \quad A(7,2), B(0,-3)$
$\overline{C D}: \quad C(-4,12), D(-1,4)$
23. $\overline{R S}: \quad R(5,6), S(11,-2)$
$\overline{T U}: \quad T(-7,9), U(3,9)$

1. $\overleftrightarrow{B U}, \overleftrightarrow{B H}, \overleftrightarrow{H B}, \overleftrightarrow{U H}, \overleftrightarrow{H U}$, line / 2. Plane S, Plane BHE, Plane BEH, Plane HEB, etc.
2. $\overrightarrow{H U}$
3. Yes, they are congruent
4. $x=5, N O=27$
5. $(8,1)$
6. $(-11.5,-2.5)$
7. $(-6,4)$
8. $S T \approx 8.1$
9. Point B
10. No, they are not congruent
11. $H J=16, J K=22$
12. $(2.5,4)$
13. $x=2, M Q=7$
14. $(3,-8)$
15. No, they are not congruent
16. U, B, H
17. $x=10, N P=32$
18. $H J=57, J K=3$
19. $(-5.5,-1)$
20. $x=4, U V=142$
21. $A B \approx 6.3$
22. Yes, they are congruent
