

Name _____

Date _____

Assignment 2 LESSON 1.2 Show all work for full credit.

Measure the length of the segment to the nearest tenth of a centimeter.



Use the segment Addition Postulate to find the indicated length.

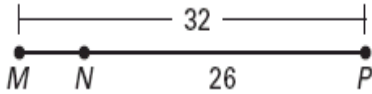
3. Find RT .



4. Find BC .



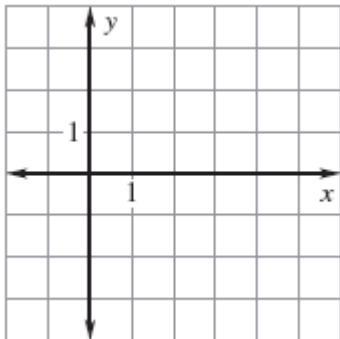
5. Find MN .



Plot the given points in a coordinate plane. Then determine whether the line segments named are congruent.

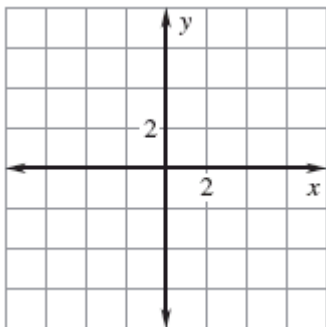
6. $A(2, 2)$, $B(4, 2)$, $C(-1, -1)$, $D(-1, 1)$;

\overline{AB} and \overline{CD}

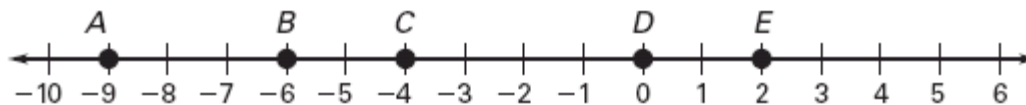


7. $M(1, -3), N(4, -3), O(3, 4), P(4, 4)$;

\overline{MN} and \overline{OP}



Use the number line to find the indicated distance.



8. AB

9. CD

10. CE

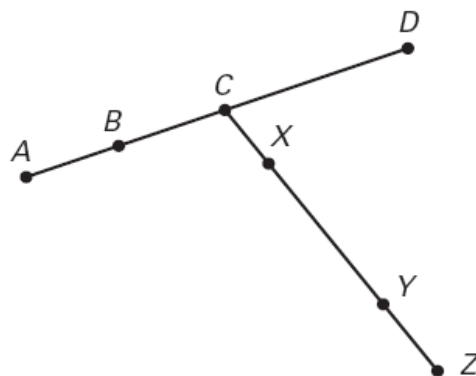
In the diagram, points $A, B, C,$ and D are collinear, points C, X, Y and Z are collinear, $AB = BC = CX = YZ, AD = 54, XY = 22,$ and $XZ = 33$. Find the indicated length.

11. BD

12. CY

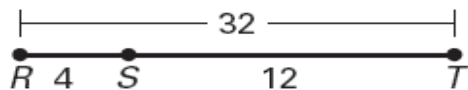
13. XC

14. CZ

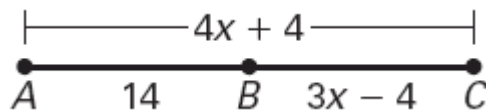


Find the indicated length.

15. Find ST .



16. Find AC .



Point J is between H and K on \overline{HK} . Use the given information to write an equation in terms of x . Solve the equation. Then find HJ and JK .

17. $HJ = 2x$
 $JK = 3x$
 $KH = 25$

18 $HJ = \frac{x}{4}$
 $JK = 3x - 4$
 $KH = 22$

19 $HJ = 5x - 4$
 $JK = 8x - 10$
 $KH = 38$

20 $HJ = 5x - 3$
 $JK = x - 9$
 $KH = 5x$