Write the Segment Addition Postulate for the points described. Draw a picture to help.

1. S is between D and P

2. J is between S and H

3. C is between Q and R

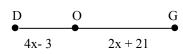
4. T is between M and N

C is between A and E. For each problem, draw a picture representing the three points and the information given. Solve for indicated.

Find QR in the following problems. R is between Q and S.

Refer to the figure and the given information to find each measure.

 \mathcal{C} A 2x-8 B x+17



If U is between T and B, find the value of x and the lengths of the segments. (Hint: Draw a picture for each problem with the given information and then write the equation to solve.)

12.
$$TU = 4x-1$$
, $UB = 2x-1$, $TB = 5x$

x = _____

TU = _____

UB = _____

x = _____

TU = _____

UB = _____

TB = _____

Write an equation for the each:

- 13. Segment AB is congruent to segment BC _____
- 14. $\overline{XY} \cong \overline{AB}$
- 15. Point B bisects segment AC_____
- 16. 2x+5 is equal to 4x-8_____
- 17. Point A is the midpoint of segment PT______

For 18-19, suppose \overline{RS} is congruent to \overline{MN} . For each set of lengths, solve for x, and find the length of each segment. For 20-21, $\overline{AB}\cong \overline{BC}$.

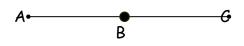
18. RS =
$$3x + 17$$
, MN = $7x - 15$

19. R5 =
$$x + 10$$
, MN = $2x + 4$

x = _____ RS = ____ MN = ____

20. A = B = C

BONUS 5(2x + 2) 3(3x - 1)



x =	AB =
B <i>C</i> =	AC =