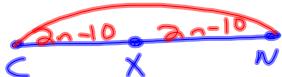9-26-13
1ˢᵗ Geo

From RQ 1 #2

If X is the midpoint of $\overline{CN}$
and $CX = 2n-10$, what is CN?

2n-10   2n-10

C   X   N

4n-20

Properties

Reflexive
Symmetric
Substitution
Transative

Addition
Subtraction
Multiplication
Division

① $\angle ABC = \angle ABC$ Reflexive

② If $CN + BC = 10$,   Subtraction
then $CN = 10 - BC$.

③ If $AB = XY$,   Symmetric
then $XY = AB$.

④ If $2 \cdot AB = CD$,   Division
then $AB = \dfrac{CD}{2}$.

⑤ If $AB = 2$ and
$CD + AB = XY$, then   Substitution
$CD + 2 = XY$.

Example of Transitive

Tom beat up Rick
Rick beat up Jim.

6) If $\boxed{CN} = \boxed{XY}$ and $\boxed{XY} = \boxed{AB}$ then $\boxed{CN} = \boxed{AB}$.

Transitive

7) If $CN = BX$, the $CN + AY = BX + AY$.

Addition

8) If $2\frac{CX}{2} = 2 \cdot 10$, then $CX = 20$.

Multiplication

9) If $\angle 1 = 30°$ and $\angle 1 + \angle 2 = \angle 3$, then $30° + \angle 2 = \angle 3$.

Substitution

10) If $\angle ABC = \angle XYZ$, then $\angle ABC - 20° = \angle XYZ - 20°$

Subtraction

11) If $AB - XY = BC - XY$ then $AB = BC$.

Addition

12) If $XY - 4 = BC$, then $XY = BC + 4$.

Addition

13) If $-1 \cdot AB = -10$, then $AB = 10$.

Division

14) If $5 \cdot AB = BC$, then $AB = \frac{BC}{5}$.

Division