Geometry 2.7
Write proofs involving segment addition
Write proofs involving segment congruence
ruler postulate
segment addition postulate
reflexive property of congruence
symmetric "
transitive "

Quiz 2.5-2.6

scrambled proofs whiteboards

Scrambled proofs Girn:

Prox:

ore: pic

Statement Reason

1. Given

pave 4.

2. CARPENTRY A carpenter cuts a 2" × 4" board to a desired length. He then uses this board as a pattern to cut a second board congruent to the first. Similarly, he uses the second board to cut a third board and the third board to cut a fourth board. Prove that the last board cut has the same measure as the first.

Given

MN= KL, Kl=RS, RS=PQ

Prok MN= PQ

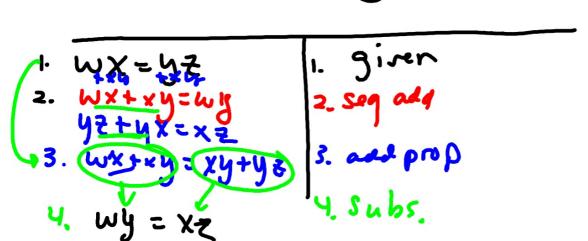


you need something to substitute with...

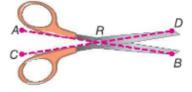
2. PROOF Prove the following.

Given:  $\overline{WX} \cong \overline{YZ}$ 

Prove:  $\overline{WY} \cong \overline{XZ}$ 



SCISSORS Refer to the diagram shown.  $\overline{AR}$  is congruent to  $\overline{CR}$ .  $\overline{DR}$  is congruent to  $\overline{BR}$ . Prove that AR + DR = CR + BR.



Are parts of the drawing irrelevant? (might be extra info...)

**11.** If *E* is the midpoint of  $\overline{DF}$  and  $\overline{CD} \cong \overline{FG}$ , then  $\overline{CE} \cong \overline{EG}$ .

