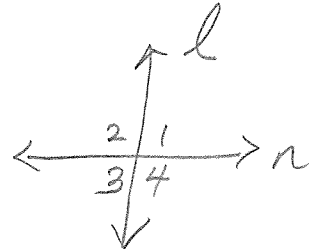


Perp. lines : 2 lines that form Rt angles.

If 2 lines  $\perp$ , they form congruent adjacent angles.  
If 2 lines  $\perp$ ,  $\rightarrow$  form  $\cong$  adjacent  $\angle$ s.

Given:  $l \perp n$

Prove:  $\angle 1, \angle 2, \angle 3, \angle 4$   
are congruent  $\angle$ s.



①  $l \perp n \rightarrow$  ②  $\angle 1, \angle 2, \angle 3, \angle 4$  are right  $\angle$ s.  $\rightarrow$  ③  $m\angle 1 = 90 \rightarrow$   
 $m\angle 2 = 90$   
 $m\angle 3 = 90$   
 $m\angle 4 = 90$

$\rightarrow$  ④  $m\angle 1 = m\angle 2 = m\angle 3 = m\angle 4 \rightarrow$  ⑤  $\angle 1 \cong \angle 2 \cong \angle 3 \cong \angle 4$

(def. of right  $\angle$  : an  $\angle$  w/ measure of  $90^\circ$ )

- ① Given
- ② Def. of  $\perp$  lines :  $\perp$  lines form Rt.  $\angle$ s.
- ③ Def of Rt  $\angle$  : A rt.  $\angle$  measures  $90^\circ$ .
- ④ Substitution Prop.
- ⑤ Def of  $\cong$   $\angle$ s :  $\cong$   $\angle$ s have = measures.