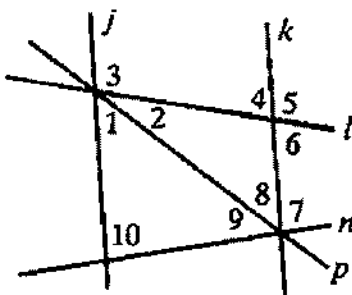


Use the given information to name the pair of lines that must be parallel. Justify your reasoning with a theorem or postulate. If there are no such segments, write *none*.



1.  $\angle 1 \cong \angle 8$

j || k by Alt Int  $\angle$ 's Converse

2.  $\angle 4 \cong \angle 6$

none by \_\_\_\_\_

3.  $\angle 7 \cong \angle 10$

j || k by Corr  $\angle$ 's Converse

4.  $m\angle 3 + m\angle 4 = 180$

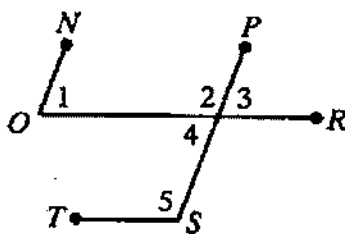
j || k by Consec Int  $\angle$ 's Converse

5.  $m\angle 5 = m\angle 3$

j || k by Corr  $\angle$ 's Converse

6.  $\angle 6 \cong \angle 7$

none by \_\_\_\_\_



1.  $\angle 1 \cong \angle 3$

$\overline{ON} \parallel \overline{PS}$  by Corr  $\angle$ 's Converse

2.  $m\angle 4 = m\angle 1$

$\overline{ON} \parallel \overline{PS}$  by Alt Int  $\angle$ 's Converse

3.  $\angle 4$  is supplementary to  $\angle 5$

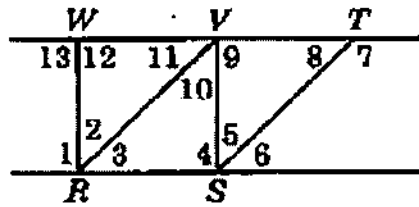
$\overline{OR} \parallel \overline{TS}$  by Consec Int  $\angle$ 's Converse

4.  $\angle 2 \cong \angle 5$

$\overline{OR} \parallel \overline{TS}$  by Corr  $\angle$ 's Converse

5.  $\angle 3 \cong \angle 5$

none by \_\_\_\_\_



- |  |   |    |   |
|--|---|----|---|
| 1. $\angle 1 \cong \angle 4$   | $\overline{WR} \parallel \overline{VS}$ | by | <u>Corr <math>\angle</math>'s Converse</u>  |
| 2. $\angle VRS$ is supp. to $\angle TSR$                                       | $\overline{VR} \parallel \overline{TS}$ | by | <u>Consec Int <math>\angle</math>'s Converse</u>  |
| 3. $\angle 4 \cong \angle 12$  | none                                    | by | _____   |
| 4. $m\angle 6 = m\angle 8$   | $\overline{VT} \parallel \overline{RS}$ | by | <u>Alt Int <math>\angle</math>'s Converse</u>   |
| 5. $\angle 2 \cong \angle 5$   | none                                    | by | _____   |
| 6. $\overline{WR} \perp \overline{WT}$ and $\overline{VS} \perp \overline{VT}$ | $\overline{WR} \parallel \overline{VS}$ |    | <u>Corr <math>\angle</math>'s Converse OR Consec Int <math>\angle</math>'s Converse</u> |