$\qquad$

If two lines are cut by a transversal and...

...then the lines are parallel!

## Are the following lines parallel?



Yes, alt ext $\angle^{\prime} S \cong$ so lines \||


Yes, s-s int $L^{\prime} s$ supp, so lines ||


No, s-s ext $\angle$ 's would be supp. If lines ||


Yes, alt int $\angle^{\prime} S \cong$ so lines \|


$$
\text { Yes, corr } \angle^{\prime} s \cong \text { so lines \|. }
$$



No, s-s int $\angle$ 's would be supp. If lines ||

Which lines, if any, in the diagram below are parallel if each of the following is provided as your given information?


1. $\angle 1 \cong \angle 7$

Transversal $b$, line $j$ || line $\ell$

$$
\text { 2. } \angle 4 \cong \angle 6
$$

Transversal $b$, line $j \|$ line $k$
3. $\angle 11 \cong \angle 3$

Transversal $f$, line a || line $b$
4. $\angle 9 \cong \angle 2$

Transversal $\ell$, NOT parallel
5. $\angle 1 \cong \angle 13$

NO Transversal , NOT parallel
6. $\angle 16$ supp $\angle 7$

Transversal j, line a |l line $b$
7. $\angle 9$ supp $\angle 3$

Transversal $\ell$, NOT parallel
8. $\angle 12 \cong \angle 16$

Transversal $a$, line $j \|$ line $f$
9. $\angle 14 \cong \angle 5$

Transversalj, NOT parallel
10. $\angle 13 \cong \angle 8$

Transversalj, NOT parallel
11. $\angle 15$ supp $\angle 10$

Transversal $a$, line $j \|$ line $k$ 12. $\angle 16 \cong \angle 10$

Transversal $a$, line $j$ || line $\ell$

