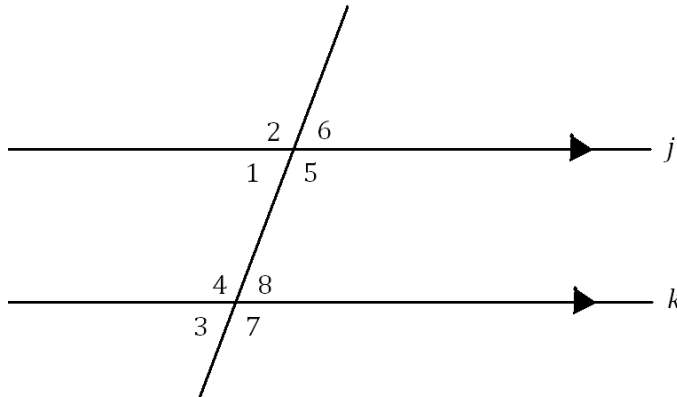


1

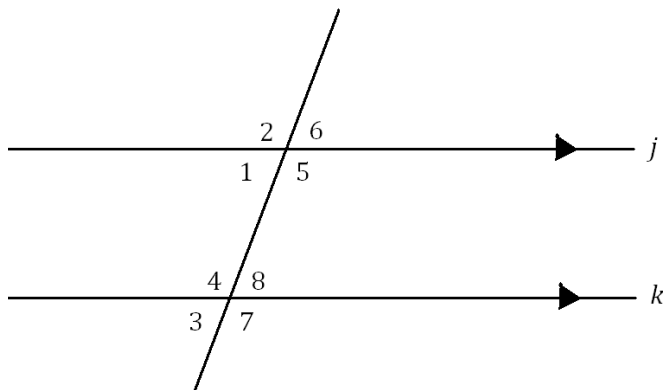


Given: $j \parallel k$
Prove: $\angle 2 \cong \angle 7$

<p>1. $j \parallel k$</p> <p>2. $\angle 2 \cong \angle 4$</p> <p>3. $\angle 4 \cong \angle 7$</p> <p>4. $\angle 2 \cong \angle 7$</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>
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#1 is a proof of the theorem ***If \parallel lines, then alt ext \angle s \cong .*** Remember that you can't use the theorem you are trying to prove inside the proof of itself!

2

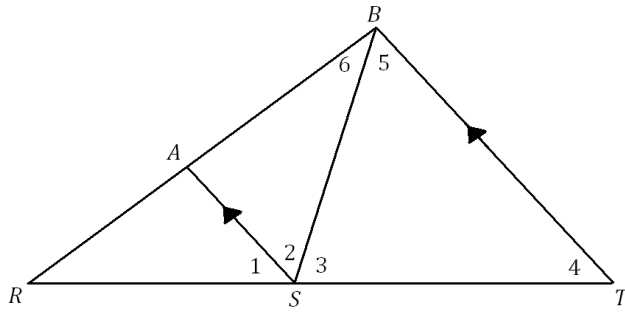


Given: $j \parallel k$
Prove: $\angle 1$ and $\angle 7$ are supp \angle s

1. $j \parallel k$
2. $\angle 1$ and $\angle 4$ are supp \angle s
3. $m\angle 1 + m\angle 4 = 180$
4. $m\angle 4 = m\angle 7$
5. $m\angle 1 + m\angle 7 = 180$
6. $\angle 1$ and $\angle 7$ are supp \angle s

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

3



Given: $\overline{AS} \parallel \overline{BT}$;
 $m\angle 4 = m\angle 5$
Prove: $m\angle 1 = m\angle 2$

1. $\overline{AS} \parallel \overline{BT}$
2. $m\angle 2 = m\angle 5$
3. $m\angle 4 = m\angle 5$
4. $m\angle 2 = m\angle 4$
5. $m\angle 1 = m\angle 4$
6. $m\angle 1 = m\angle 2$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____