





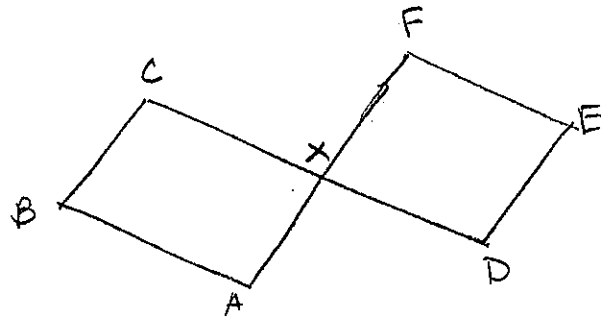


**Geometry Honors  
Proof Template**

Name \_\_\_\_\_

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Diagram:



Given:  $ABCX$  is  $\square$   
 $DXFE$  is  $\square$

Prove:  $\angle B \cong \angle E$

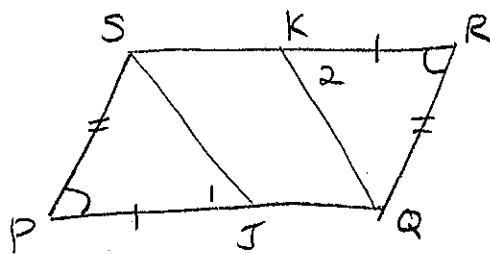
| Statement  | Reason                              |
|--|-------------------------------------|
| 1. $ABCX$ is $\square$ ; $DXFE$ is $\square$                 | 1. Given                            |
| 2. $\angle B \cong \angle CXA$ ; $\angle FXD \cong \angle E$ | 2. Opp. $\angle$ 's $\square \cong$ |
| 3. $\angle CXA \cong \angle FXD$                             | 3. Vert. $\angle$ 's $\cong$        |
| 4. $\angle B \cong \angle E$                                 | 4. Transitive                       |
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**Geometry Honors  
Proof Template**

Name \_\_\_\_\_

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Diagram:



Given:  $\square PQRS$   
 $\overline{PJ} \cong \overline{RK}$

Prove:  $\overline{SJ} \cong \overline{QK}$

| Statement   | Reason                              |
|---|-------------------------------------|
| 1. $\square PQRS$ ; $\overline{PJ} \cong \overline{RK}$ | 1. Given                            |
| 2. $\overline{SP} \cong \overline{RQ}$                  | 2. Opp. sides $\square \cong$       |
| 3. $\angle P \cong \angle R$                            | 3. Opp. $\angle$ 's $\square \cong$ |
| 4. $\triangle SPJ \cong \triangle QRK$                  | 4. SAS                              |
| 5. $\overline{SJ} \cong \overline{QK}$                  | 5. CPCTC                            |
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**Geometry Honors  
Proof Template**

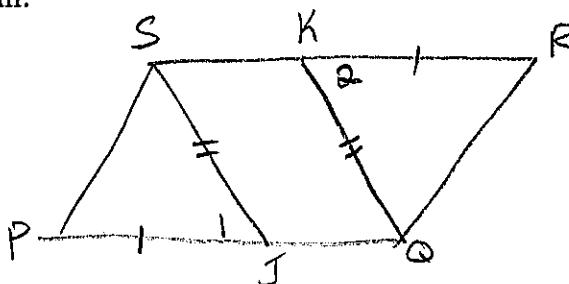
Name \_\_\_\_\_

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Diagram:

Given:  $\square JQKS$   
 $\overline{PJ} \cong \overline{RQ}$

Prove:  $\angle P \cong \angle R$



| Statement   | Reason                                       |
|---|--|
| 1. $\square JQKS$ ; $\overline{PJ} \cong \overline{RQ}$               | 1. Given                                     |
| 2. $\overline{SJ} \cong \overline{KQ}$                                | 2. Opp. sides $\square \cong$                |
| 3. $\angle SJQ \cong \angle SKQ$                                      | 3. Opp. $\angle^s \square \cong$             |
| 4. $m\angle 1 + m\angle SJQ = 180$<br>$m\angle 2 + m\angle SKQ = 180$ | 4. $\angle$ Add'n Post                       |
| 5. $\angle 1 + \angle SJQ$ supp.<br>$\angle 2 + \angle SKQ$ supp.     | 5. def. supp.                                |
| 6. $\angle 1 \cong \angle 2$  | 6. 2 $\angle^s$ supp. $\cong \angle^s \cong$ |
| 7. $\triangle SJP \cong \triangle QKR$                                | 7. SAS                                       |
| 8. $\angle P \cong \angle R$  | 8. CPCTC                                     |
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**Geometry Honors  
Proof Template**

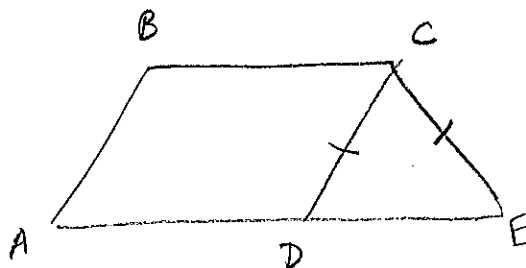
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Diagram:

Given:  $ABCD$  is  $\square$   
 $\overline{CD} \cong \overline{CE}$

Prove:  $\angle A \cong \angle E$



| Statement  | Reason  |
|--|---|
| 1. $ABCD$ is $\square$ ; $\overline{CD} \cong \overline{CE}$ | 1. Given  |
| 2. $\overline{AB} \parallel \overline{DC}$                   | 2. def. $\square$   |
| 3. $\angle A \cong \angle CDE$                               | 3. $\parallel$ lines $\rightarrow$ corr. $\angle$ s $\cong$ |
| 4. $\angle CDE \cong \angle E$                               | 4. Isosc. $\Delta$ Thm.                                     |
| 5. $\angle A \cong \angle E$                                 | 5. Transitive   |
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