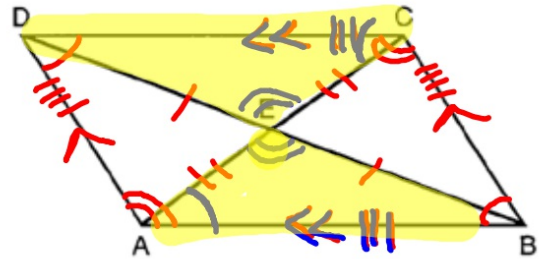


Given:  $\square ABCD$

Prove:  $\triangle AEB \cong \triangle CED$



| STATEMENT                                                                                                                                                                                                                                                                                                               | REASONS                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Parallelogram ABCD</p> <p>S 2. <math>\overline{AB} \cong \overline{DC}</math></p> <p>A 3. <math>\overline{AB} \parallel \overline{DC}</math></p> <p>A 4. <math>\angle CAB \cong \angle ACD</math></p> <p>5. <math>\angle AEB \cong \angle DEC</math></p> <p>6. <math>\triangle AEB \cong \triangle CED</math></p> | <p>1. Given</p> <p>2. Opp sides of a parallelogram Congruent</p> <p>3. Opp sides of a parallelogram parallel</p> <p>4. Alt Int angles Congruent</p> <p>5. Vertical Angles Congruent</p> <p>6. AAS</p> |