**Geometry** (G.CO.11) Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
**Unit One B: Parallelogram Proofs #1** (HW37) Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_

D

B

A

C

E

1

1. Fill in the blanks below using the properties of parallelograms. These may be used in the following two proofs as reasons for statements you may need to make.
2. Parallelogram 🡪 \_\_\_\_\_\_\_\_\_\_\_\_ sides are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Parallelogram 🡪 \_\_\_\_\_\_\_\_\_\_\_\_ sides are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Parallelogram 🡪 \_\_\_\_\_\_\_\_\_\_\_\_ angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Parallelogram 🡪 \_\_\_\_\_\_\_\_\_\_\_\_ angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Parallelogram 🡪 diagonals \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



1

2

Given: ABCD is parallelogram; $\overbar{BE}≅\overbar{AD}$

Prove: $∠1≅∠C$

Reasons

Statements