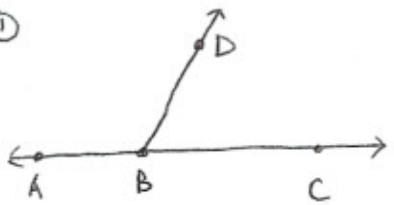
Name _____

Due Date _____

Block _____

Intro to Proofs #2.12

Fill in the blanks:

① 

Given: $m\angle DBC = 65°$

Prove: $m\angle ABD = 115°$

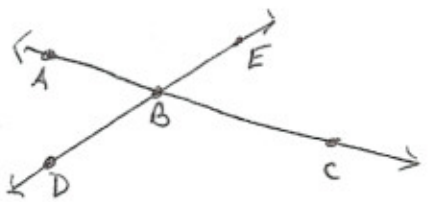
1. _____ 1. _____

2. $\angle ABD$ is linear to $\angle DBC$ 2. Definition of Linear Pair

3. $\angle ABD$ is supplementary to $\angle DBC$ 3. Linear Pair Supp Theorem (2)

4. _____ 4. Def. Supplementary Angles (3)

5. _____ 5. _____ (4, 1)

② 

Given: $m\angle ABD = 40°$

Prove: $m\angle EBC = 40°$

1. _____ 1. _____

2. $\angle ABD$ is Vertical to $\angle EBC$ 2. Def. Vertical Angles

3. _____ 3. Vertical Angle Congruent Theorem (2)

4. _____ 4. Def. $\cong \angle$s (3)

5. $m\angle EBC = m\angle ABD$ 5. Symm (4)

6. _____ 6. _____ (5, 1)