Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

**PRACTICE: PROOFS ~ CONVERSES AND PARALLEL LINES**

1. Given: ∠ 5 ∠ 4

Prove: *g//h* (w/o converse of AIA Th)

 Conclusions Justifications

1. 1)
2. 2)
3. 3)
4. 4)

*m*

*n*

1

3

2

4

5

1. Given: ∠ 2 ∠ 4

Prove: *m//n* (w/o converse of CAP)

 Conclusions Justifications

1. 1)
2. 2)
3. 3)
4. 4)

*a*

*b*

1. Given: ∠ 1 ∠ 8

Prove: a*//b* (w/o converse of AEA Th)

 Conclusions Justifications

1. 1)
2. 2)
3. 3)
4. 4)
5. Given: *a//b, x//y*

Prove: ∠ 3 ∠ 13

 Conclusions Justifications



1. Given: ∠ 6 ∠ 12 and *x//y*

Prove: *a//b*

 Conclusions Justifications

***CHALLENGE: Please try this.***

*m*

*n*

1

3

4

5

1. Given: ∠ 1 ∠ 4

Prove: *m//n* (using Converse SSIA Theorem)

 *\*(Hint: Consider using Substitution…)*

 Conclusions Justifications