**Homework 4.6 – Similarity Shortcuts Day 2** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Determine if the triangles are similar. Show all your work to support the postulate or theorem you choose. Write a similarity statement if they are similar or “Not Similar” if they’re not.**

**B**

**A**

**A’**

**C**

**C’**

**6**

**3**

**2**

**4**



1. 2.

3. **Show your work.** 4. **Write the similarity proof.**



|  |  |
| --- | --- |
| **Statement** | **Reason** |
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |

5. **Prove:** $∆ABE \~ ∆CBD$ 6. **Are the triangles similar?** **If not, write “not similar”.**





1. $\overbar{AE}∥\overbar{CD}$

2.

3.

4.

**Statements**

**Reasons**

1. Given

2.

3.

4.