

**G.G.26: Inverse 2: Identify and write the inverse, converse, and contrapositive of a given conditional statement and note the logical equivalences**

- 1 What is the inverse of the statement “If two triangles are not similar, their corresponding angles are not congruent”?
  
- 2 What is the inverse of the statement “If it is sunny, I will play baseball”?
  
- 3 What is the inverse of the statement “If Mike did his homework, then he will pass this test”?
  
- 4 What is the inverse of the statement “If Julie works hard, then she succeeds”?
  
- 5 What is the inverse of the statement “If I do not buy a ticket, then I do not go to the concert”?
  
- 6 Which statement is the inverse of "If the waves are small, I do not go surfing"?
  
- 7 Which statement is the inverse of “If  $x + 3 = 7$ , then  $x = 4$ ”?

**G.G.26: Inverse 2: Identify and write the inverse, converse, and contrapositive of a given conditional statement and note the logical equivalences****Answer Section**

1 ANS:

If two triangles are similar, their corresponding angles are congruent.

REF: 011028ge

2 ANS:

If it is not sunny, I will not play baseball.

REF: 060006a

3 ANS:

If Mike did not do his homework, then he will not pass this test.

REF: 010303a

4 ANS:

If Julie does not work hard, then she does not succeed.

REF: 060317a

5 ANS:

If I buy a ticket, then I go to the concert.

REF: 080416a

6 ANS:

If the waves are not small, I go surfing.

REF: 010616a

7 ANS:

If  $x + 3 \neq 7$ , then  $x \neq 4$ .

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