

NAME: \_\_\_\_\_

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

1. 010303a, P.I. G.G.26  
What is the inverse of the statement "If Mike did his homework, then he will pass this test"?  
[A] If Mike does not pass this test, then he only did half his homework.  
[B] If Mike does not pass this test, then he did not do his homework.  
[C] If Mike did not do his homework, then he will not pass this test.  
[D] If Mike passes this test, then he did his homework.
2. 060317a, P.I. G.G.26  
What is the inverse of the statement "If Julie works hard, then she succeeds"?  
[A] If Julie succeeds, then she works hard.  
[B] If Julie does not work hard, then she does not succeed.  
[C] If Julie works hard, then she does not succeed.  
[D] If Julie does not succeed, then she does not work hard.
3. 060006a, P.I. G.G.26  
What is the inverse of the statement "If it is sunny, I will play baseball"?  
[A] If I do not play baseball, then it is not sunny.  
[B] If I play baseball, then it is sunny.  
[C] If it is not sunny, I will not play baseball.  
[D] I will play baseball if and only if it is sunny.
4. 080416a, P.I. G.G.26  
What is the inverse of the statement "If I do not buy a ticket, then I do not go to the concert"?  
[A] If I buy a ticket, then I go to the concert.  
[B] If I buy a ticket, then I do not go to the concert.  
[C] If I do not go to the concert, then I do not buy a ticket.  
[D] If I go to the concert, then I buy a ticket.
5. 010616a, P.I. G.G.26  
Which statement is the inverse of "If the waves are small, I do not go surfing"?  
[A] If I do not go surfing, the waves are small.  
[B] If the waves are not small, I do not go surfing.  
[C] If I go surfing, the waves are not small.  
[D] If the waves are not small, I go surfing.
6. 010715a, P.I. G.G.26  
What is the inverse of the statement "If Bob gets hurt, then the team loses the game"?  
[A] If Bob does not get hurt, then the team does not lose the game.  
[B] Bob gets hurt if the team loses the game.  
[C] If the team does not lose the game, then Bob does not get hurt.  
[D] If the team loses the game, then Bob gets hurt.

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

[1] C

[2] B

[3] C

[4] A

[5] D

[6] A