

A. Give the converse, inverse and contrapositive of the ff. conditional statement.

1. If MJ is in Grade 8, then he is 14yrs old.

Converse: If he is 14yrs old, then MJ is in Grade 8.

Inverse: If MJ is not in Grade 8, then he is not 14yrs old.

Contrapositive: If he is not 14yrs old, then MJ is not in Grade 8.

2. If it is cloudy then it will rain.

Converse: If it will rain, then it is cloudy

Inverse: If it is not cloudy then it will not rain.

Contrapositive: If it will not rain, then it is not cloudy.

3. If you will sleep early, then you will wake up early.

Converse: If you will wake up early, then you will sleep early.

Inverse: If you will not sleep early, then you will not wake up early.

Contrapositive: If you will not wake up early, then you will not sleep early.

4. If the integer is divisible by 5, then its last digit must be 0 or 5.

Converse: if its last digit must be 0 or 5, then an integer is divisible by 5.

Inverse: If an integer is not divisible by 5, then its last digit must not be 0 or 5.

Contrapositive: if its last digit must not be 0 or 5, then an integer is not divisible by 5.

5. If the angle measures less than 90 degrees, then it is an acute angle.

Converse: if it is an acute angle, then the angle measures less than 90 degrees.

Inverse: If the angle is not measured less than 90 degrees, then it is not an acute angle. **Contrapositive:** if it is not an acute angle, then the angle is not measured less than 90 degrees.

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Complete the two- column proof. Write the letter of the correct answer.

Given: If $4(x + 7) = 52$ then, $x = 6$

STATEMENTS	REASONS
$4(x + 7) = 52$	Given
6. $4x = 24$	7.C
	8.B
9.D	10. E

A. $4x + 28 = 52$

B. Multiplication Property

C. Addition Property

D. $x = 6$

E. Distributive Property