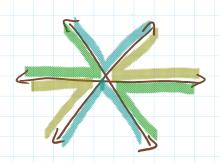


Determine whether the conditional statement is true or false. If false, give a counter example.

3 intersecting lines form 2 pairs of vertical angles.



False



Write the converse, inverse and the contrapositive of each statement. Then decide if each statement is true or false

P->9 9->P NP->ng

If it is August, then it is Summer.



Decide whether inductive reasoning or deductive reasoning is used to reach the conclusion.

Adding 2 consecutive numbers will always produce a number larger than either of the original numbers.



Use the Law of Syllogism to write a new conditional statement that follows from the pair of true statements (where possible).

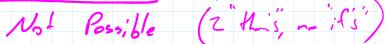
If a shape has 3 sides, then it's a triangle.

If a shape is a triangle, then it has 3 angles.

If a slape has 3 sides, the it has 3 angles.

If you drive a car, then you have a license.

If you drive a car, then you fill the car with gas.





Solve the equation. Justify each step.

$$3x + 3 = 9(x - 1)$$

Identify the property that justifies the statement.

If
$$m \angle 1 = m \angle 2$$
 then $m \angle 2 = m \angle 1$

Symmetric POE

AD = CD H. CD = AB

Symplic POC

ral.

1195

