

The conditional statement is: If a figure is a quadrilateral, then it is a square.

If a figure is not a square, then it is not a quadrilateral What is the relation to the original statement and truth value for the following?

- Biconditional and F
- Inverse and F
- Converse and T
- Contrapositive and F
- Contrapositive and T
- Converse and F
- ào Biconditional and T
- Inverse and T

geo_02_review_notes.gwb - 3/18 - Wed Nov 08 2017 18:34:49



The conditional statement is: If an angle is a right angle, then its measure is 90

If an angle's measure is not 90 degrees, then it is not a right angle What is the relation to the original statement and truth value for the following?

- Inverse and F
- Inverse and T
- <u>d</u> Contrapositive and F
 - Contrapositive and T
- Biconditional and T
- Converse and T Biconditional and F
- Converse and F

ExamView

The conditional statement is: If a figure is a quadrilateral, then it is a square.

If a figure is a square, then it is a quadrilateral What is the relation to the original statement and truth value for the following?

www.mrtownsend.com

- Biconditional and T
- Contrapositive and F
- Inverse and F
- Converse and T

- e. Biconditional and F
- Converse and F
- Inverse and T
- Contrapositive and T

notes.gwb - 4/18 - Wed Nov 08 2017 18:35:17



The conditional statement is: If an angle is a right angle, then its measure is 90

If an angle is not a right angle, then its measure is not 90 degrees. What is the relation to the original statement and truth value for the following?

- Contrapositive and T
- Biconditional and T
- Inverse and F
- Converse and F
- Contrapositive and F Inverse and T
- Biconditional and F
- Converse and T

1



Which of the following is an example of deductive reasoning?

- a. All students studied for the math test.
- Sally is a student, so she studied for the math test.
- Tuition at a college has increased over the past several years.

Therefore, tuition is likely to increase next year.

geo_02_review_notes.gwb - 7/18 - Wed Nov 08 2017 18:39:54



statement that is also true. The statements below are true. Use the statements to make a new conditional

If a number is not divisible by 2, then it is odd. The number 10 is divisible by 2.

- Not possible with the given number of 10.
- The number 10 is not divisible by 2.
- If the number is odd, then the number is divisible by 10.
- ď If a number is divisible by 2, then it is odd.



Which of the following is an example of inductive reasoning?

a. Each time Bob goes to the gas station, he buys a sandwich So, the next time Bob goes to the gas station, he will buy a sandwich.

www.mrtownsend.com

All fish are animals.

Drippy is a fish, so Drippy is an animal

notes.gwb - 8/18 - Wed Nov 08 2017 18:41:12



statement that is also true. The statements below are true. Use the statements to make a new conditional

The measure of angle A is 76 degrees. If an angle's measure is less than 90 degrees, then the angle is acute.

- If an angle is acute, then the angle measures 76 degrees.
- If an angle is obtuse, then it has a supplement
- If angle A measures 76 degrees, then the angle is acute
- The measure of angle B is 76 degrees

2

Giv en: 11x - 4y = 1; x = 6Complete the two-column proof.

Prove: $\frac{65}{4} = y$

11x - 4y = 1; x = 6

66 - 4y = 1-4y = -65

 $\frac{65}{4} = y$ $y = \frac{65}{4}$

a a Given
b. Symmetric Property of Equality
c. Subtraction Property of Equality
d. Division Property of Equality
d. Division Property of Equality
e. Reflactive Property of Equality
b. Substration Property
c. Subtraction Property of Equality
d. Addison Property of Equality
c. Symmetric Property of Equality

b. Substitution Property
c. Substitution Property of Equality
d. Division Property of Equality
d. Division Property of Equality
d. Symmetric Property of Equality
d. Side and Property of Equality
d. Substitution Property of Equality
d. Division Property of Equality
d. Reflaxive Property of Equality

geo_02_review_notes.gwb - 11/18 - Wed Nov 08 2017 18:49:08

ExamView 3

What is the value of x? Justify each step. AC = 23



Drawing not to scale

$$AB + BC = AC$$
 a.

3x + 4x + 2 = 23ь. П

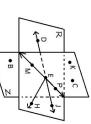
7x + 2 = 23

7x = 21 d. x = 3 e.

ExamView

geo_02_review_notes.gwb - 10/18 - Wed Nov 08 2017 18:45:55

Which of the following statements can be assumed based on the given diagram? Select all that apply.



www.mrtownsend.com

a. Points J, E, and D are collinear.b. Points P, E, and B are collinear.

d. \overrightarrow{DE} lies in plane R. e. Plane R and plane Z intersect at \overrightarrow{EP} .

c. Plane R and plane Z intersect at \overrightarrow{EJ} .

£MEH is a right angle.

geo_02_review_notes.gwb - 12/18 - Wed Nov 08 2017 18:52:25

ExamView

What is the value of x? Identify the missing justifications.



 $m\angle AOC = 138$ Drawing not to scale

2x + 6x - 6 = 138 c. 8x - 6 = 138 d.

8x = 144

3



Write the if-then form of the conditional statement.

At midnight you should not swim in the public pool.

geo_02_review_notes.gwb - 15/18 - Wed Nov 08 2017 18:55:22

powered by **ExamVieW**

Is it possible to provide a conterexample of the converse for this conditional statement? (Yes or No)

If
$$6x - 2 = 22$$
, then $x = 4$.

ExamView

Write the converse of this conditional statement.

If -2x - 6 = -22, then x = 8.

www.mrtownsend.com

geo_02_review_notes.gwb - 16/18 - Wed Nov 08 2017 18:56:06

ExamView

Write a biconditional statement of this conditional statement.

If 2x + 6 = 2, then x = -2.



Write the converse of this conditional statement.

If a quadrilateral is a square, then it is a rhombus.

Ţ,	ЭОМЕ
ă	red
3	¥
iev	
~ ·	À

Is it possible to provide a conterexample of the converse for this conditional statement? (Yes or No)

If a quadrilateral is a square, then it is a rhombus.

www.mrtownsend.com