Conditional Statements: Converse, Inverse & Contrapositive · 1

Conditional: If a figure is a rectangle, then it has four sides. Is the statement "If a figure does not have four sides, then it is not a rectangle." its converse, inverse, or contrapositive?

Conditional Statements: Converse, Inverse & Contrapositive · 2

Conditional: If an angle is a right angle, then it measures 90°. Write its inverse. Is the inverse true or false?

Conditional Statements: Converse, Inverse & Contrapositive · 3

Conditional: If a polygon has five sides, then it is a pentagon. Its inverse is "If a polygon does not have five sides, then it is not a pentagon." Is the inverse true or false?

Conditional Statements: Converse, Inverse & Contrapositive · 4

Conditional: If a polygon is a triangle, then it has exactly three sides. Is the statement "If a polygon is not a triangle, then it does not have exactly three sides." its converse, inverse, or contrapositive?

Conditional Statements: Converse, Inverse & Contrapositive · 5

Conditional: If an angle measures 30°, then it is acute. Write its inverse. Is the inverse true or false?

Conditional Statements: Converse, Inverse & Contrapositive · 6

Is this conditional true or false? If $x = 5$, then $x^2 = 25$.

Conditional Statements: Converse, Inverse & Contrapositive · 7

Conditional: If a quadrilateral is a square, then it is a rectangle. Write its converse. Is the converse true or false?

Conditional Statements: Converse, Inverse & Contrapositive · 8

Conditional: If two lines are perpendicular, then they intersect to form right angles. Is the statement "If two lines do not intersect to form right angles, then they are not perpendicular." its converse, inverse, or contrapositive?

Conditional Statements: Converse, Inverse & Contrapositive · 2

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 1

ANSWER

contrapositive

Conditional Statements: Converse, Inverse & Contrapositive · 4

ANSWER

inverse

Conditional Statements: Converse, Inverse & Contrapositive · 3

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 6

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 5

ANSWER

false

Conditional Statements: Converse, Inverse & Contrapositive · 8

ANSWER

contrapositive

Conditional Statements: Converse, Inverse & Contrapositive · 7

ANSWER

false

Conditional: If an angle measures 30°, then it is acute. Is the statement "If an angle does not measure 30°, then it is not acute." its converse, inverse, or contrapositive?

Conditional: If two angles are vertical angles, then they are congruent. Write its inverse. Is the inverse true or false?

Conditional: If an angle measures 30°, then it is acute. Its converse is "If an angle is acute, then it measures 30°." Is the converse true or false?

Conditional: If a number is even, then it is divisible by 4. Is the statement "If a number is not even, then it is not divisible by 4." its converse, inverse, or contrapositive?

Is this conditional true or false? If a number is even, then it is divisible by 4.

Conditional: If two angles are supplementary, then they form a linear pair. Write its inverse. Is the inverse true or false?

Conditional: If a triangle has a right angle, then it is a right triangle. Is the statement "If a triangle does not have a right angle, then it is not a right triangle." its converse, inverse, or contrapositive?

Conditional: If a quadrilateral is a square, then it is a rectangle. Write its inverse. Is the inverse true or false?

Conditional Statements: Converse, Inverse & Contrapositive · 10

ANSWER

false

Conditional Statements: Converse, Inverse & Contrapositive · 9

ANSWER

inverse

Conditional Statements: Converse, Inverse & Contrapositive · 12

ANSWER

inverse

Conditional Statements: Converse, Inverse & Contrapositive · 11

ANSWER

false

Conditional Statements: Converse, Inverse & Contrapositive · 14

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 13

ANSWER

false

Conditional Statements: Converse, Inverse & Contrapositive · 16

ANSWER

false

Conditional Statements: Converse, Inverse & Contrapositive · 15

ANSWER

inverse

Conditional: If a quadrilateral is a square, then it is a rectangle. Can it be combined with its converse to form a true biconditional (an "if and only if" statement)? Answer yes or no.

Conditional: If $x > 3$, then $x > 5$. Write its converse. Is the converse true or false?

Conditional: If M is the midpoint of segment AB, then AM = MB. Is the statement "If AM ≠ MB, then M is not the midpoint of segment AB." its converse, inverse, or contrapositive?

Conditional: If a number is divisible by 4, then it is even. Write its inverse. Is the inverse true or false?

Conditional: If two angles are complementary, then they are both acute. Can it be combined with its converse to form a true biconditional (an "if and only if" statement)? Answer yes or no.

Conditional: If two angles are complementary, then they are both acute. Write its contrapositive. Is the contrapositive true or false?

Conditional: If an angle measures 30°, then it is acute. Is the statement "If an angle is not acute, then it does not measure 30°." its converse, inverse, or contrapositive?

Conditional: If two lines are perpendicular, then they intersect to form right angles. Its converse is "If two lines intersect to form right angles, then they are perpendicular." Is the converse true or false?

Conditional Statements: Converse, Inverse & Contrapositive · 18

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 17

ANSWER

no

Conditional Statements: Converse, Inverse & Contrapositive · 20

ANSWER

false

Conditional Statements: Converse, Inverse & Contrapositive · 19

ANSWER

contrapositive

Conditional Statements: Converse, Inverse & Contrapositive · 22

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 21

ANSWER

no

Conditional Statements: Converse, Inverse & Contrapositive · 24

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 23

ANSWER

contrapositive