Conditional Statements: Converse, Inverse & Contrapositive · 1

Conditional: If a triangle is equilateral, then it is isosceles. Is the statement "If a triangle is not isosceles, then it is not equilateral." its converse, inverse, or contrapositive?

Conditional Statements: Converse, Inverse & Contrapositive · 2

Conditional: If a quadrilateral is a rhombus, then it is a square. Its inverse is "If a quadrilateral is not a rhombus, then it is not a square." Is the inverse true or false?

Conditional Statements: Converse, Inverse & Contrapositive · 3

Conditional: If a polygon is a triangle, then it has exactly three sides. Is the statement "If a polygon has exactly three sides, then it is a triangle." its converse, inverse, or contrapositive?

Conditional Statements: Converse, Inverse & Contrapositive · 4

Conditional: If M is the midpoint of segment AB, then AM = MB. Its contrapositive is "If AM ≠ MB, then M is not the midpoint of segment AB." Is the contrapositive true or false?

Conditional Statements: Converse, Inverse & Contrapositive · 5

Is this conditional true or false? If a triangle is equilateral, then it is isosceles.

Conditional Statements: Converse, Inverse & Contrapositive · 6

Conditional: If two angles form a linear pair, then they are supplementary. Is the statement "If two angles do not form a linear pair, then they are not supplementary." its converse, inverse, or contrapositive?

Conditional Statements: Converse, Inverse & Contrapositive · 7

Conditional: If a number is even, then it is divisible by 4. Its converse is "If a number is divisible by 4, then it is even." Is the converse true or false?

Conditional Statements: Converse, Inverse & Contrapositive · 8

Is this conditional true or false? If a polygon is a triangle, then it has exactly three sides.

Conditional Statements: Converse, Inverse & Contrapositive · 2

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 1

ANSWER

contrapositive

Conditional Statements: Converse, Inverse & Contrapositive · 4

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 3

ANSWER

converse

Conditional Statements: Converse, Inverse & Contrapositive · 6

ANSWER

inverse

Conditional Statements: Converse, Inverse & Contrapositive · 5

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 8

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 7

ANSWER

true

Conditional: If two angles form a linear pair, then they are supplementary. Is the statement "If two angles are supplementary, then they form a linear pair." its converse, inverse, or contrapositive?

Conditional: If M is the midpoint of segment AB, then AM = MB. Its inverse is "If M is not the midpoint of segment AB, then AM ≠ MB." Is the inverse true or false?

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

Conditional: If two lines are perpendicular, then they intersect to form right angles. Its contrapositive is "If two lines do not intersect to form right angles, then they are not perpendicular." Is the contrapositive true or false?

Is this conditional true or false? If two angles form a linear pair, then they are supplementary.

Conditional: If a triangle is equilateral, then it is isosceles. Its inverse is "If a triangle is not equilateral, then it is not isosceles." Is the inverse true or false?

Conditional: If two angles are complementary, then they are both acute. Is the statement "If two angles are both acute, then they are complementary." its converse, inverse, or contrapositive?

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 · 10

ANSWER

false

Conditional Statements: Converse, Inverse & Contrapositive · 9

ANSWER

converse

Conditional Statements: Converse, Inverse & Contrapositive · 12

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 11

ANSWER

contrapositive

Conditional Statements: Converse, Inverse & Contrapositive · 14

ANSWER

false

Conditional Statements: Converse, Inverse & Contrapositive · 13

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 16

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 15

ANSWER

converse

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

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

Is this conditional true or false? If a quadrilateral is a rhombus, then it is a square.

Conditional: If two lines are perpendicular, then they intersect to form right angles. Write its inverse. Is the inverse true or false?

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

Conditional: If $x > 3$, then $x > 5$. Is the statement "If $x \leq 5$, then $x \leq 3$." its converse, inverse, or contrapositive?

Conditional: If two angles are vertical angles, then they are congruent. Its converse is "If two angles are congruent, then they are vertical angles." Is the converse true or false?

Conditional Statements: Converse, Inverse & Contrapositive · 18

ANSWER

contrapositive

Conditional Statements: Converse, Inverse & Contrapositive · 17

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 20

ANSWER

false

Conditional Statements: Converse, Inverse & Contrapositive · 19

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 22

ANSWER

contrapositive

Conditional Statements: Converse, Inverse & Contrapositive · 21

ANSWER

true

Conditional Statements: Converse, Inverse & Contrapositive · 24

ANSWER

false

Conditional Statements: Converse, Inverse & Contrapositive · 23

ANSWER

contrapositive