

The Secrete of Conditional, Converse, Inverse and Contrapositive Statements

Lesson 035 | Geometry | Conditional, converse, inverse, and contrapositive

<https://www.youtube.com/watch?v=WLttOt7RZMY>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Consider: "If an integer is divisible by 36, then it is divisible by 9." Write its converse, inverse, and contrapositive. Which are true?

02

Consider: "If an integer is divisible by 20, then it is divisible by 5." Write its converse, inverse, and contrapositive. Which are true?

03

Consider: "If an integer is divisible by 80, then it is divisible by 10." Write its converse, inverse, and contrapositive. Which are true?

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04

Consider: "If an integer is divisible by 26, then it is divisible by 13." Write its converse, inverse, and contrapositive. Which are true?

05

Consider: "If an integer is divisible by 88, then it is divisible by 11." Write its converse, inverse, and contrapositive. Which are true?

06

Consider: "If an integer is divisible by 33, then it is divisible by 3." Write its converse, inverse, and contrapositive. Which are true?

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01

Consider: "If an integer is divisible by 36, then it is divisible by 9." Write its converse, inverse, and contrapositive. Which are true?

Converse: divisible by 9 implies divisible by 36; false (counterexample 9). Inverse: not divisible by 36 implies not divisible by 9; false (same counterexample). Contrapositive: not divisible by 9 implies not divisible by 36; true, equivalent to the original true statement.

02

Consider: "If an integer is divisible by 20, then it is divisible by 5." Write its converse, inverse, and contrapositive. Which are true?

Converse: divisible by 5 implies divisible by 20; false (counterexample 5). Inverse: not divisible by 20 implies not divisible by 5; false (same counterexample). Contrapositive: not divisible by 5 implies not divisible by 20; true, equivalent to the original true statement.

03

Consider: "If an integer is divisible by 80, then it is divisible by 10." Write its converse, inverse, and contrapositive. Which are true?

Converse: divisible by 10 implies divisible by 80; false (counterexample 10). Inverse: not divisible by 80 implies not divisible by 10; false (same counterexample). Contrapositive: not divisible by 10 implies not divisible by 80; true, equivalent to the original true statement.

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04

Consider: "If an integer is divisible by 26, then it is divisible by 13." Write its converse, inverse, and contrapositive. Which are true?

Converse: divisible by 13 implies divisible by 26; false (counterexample 13). Inverse: not divisible by 26 implies not divisible by 13; false (same counterexample). Contrapositive: not divisible by 13 implies not divisible by 26; true, equivalent to the original true statement.

05

Consider: "If an integer is divisible by 88, then it is divisible by 11." Write its converse, inverse, and contrapositive. Which are true?

Converse: divisible by 11 implies divisible by 88; false (counterexample 11). Inverse: not divisible by 88 implies not divisible by 11; false (same counterexample). Contrapositive: not divisible by 11 implies not divisible by 88; true, equivalent to the original true statement.

06

Consider: "If an integer is divisible by 33, then it is divisible by 3." Write its converse, inverse, and contrapositive. Which are true?

Converse: divisible by 3 implies divisible by 33; false (counterexample 3). Inverse: not divisible by 33 implies not divisible by 3; false (same counterexample). Contrapositive: not divisible by 3 implies not divisible by 33; true, equivalent to the original true statement.