

REVIEW CONDITIONALS

WRITE THE NEGATION OF EACH STATEMENT

- | | |
|---------------------------------------|---|
| 1) Aspirin relieves pain. | 2) Not every banker is rich. |
| 3) $2 + 4 = 8$ | 4) For every question there is an answer. |
| 5) There are thirty days in February. | 6) Apples are not vegetables. |

IDENTIFY THE HYPOTHESIS AND CONCLUSION OF EACH CONDITIONAL.

- 7) The picnic will be cancelled if it rains.
hypothesis: _____ conclusion: _____
- 8) Mary does well in school when she gets enough sleep.
hypothesis: _____ conclusion: _____

REWRITE EACH STATEMENT IN "IF-THEN" FORM.

- 9) The train will be late if it snows.
- 10) I know he was there because I saw him.
- 11) The person who steals will surely be caught.
- 12) With your looks, I'd be a movie star.
- 13) The dog days of summer are never easy to stand.
- 14) An old dog can learn new tricks.

WRITE THE CONVERSE, INVERSE, AND CONTRAPOSITIVE OF EACH CONDITIONAL.

- 15) CONDITIONAL: If you make good grades, then you study hard.
CONVERSE:
INVERSE:
CONTRAPOSITIVE:
BICONDITIONAL:
- 16) CONDITIONAL: If a person is eighteen, then he is eligible to vote.
CONVERSE:
INVERSE:
CONTRAPOSITIVE:
BICONDITIONAL:
- 17) CONDITIONAL: A person who is crying is sad. (hint: If-Then Form)
CONVERSE:
INVERSE:
CONTRAPOSITIVE:

- 18) **CONDITIONAL:** If this is September, then I am in school.
CONVERSE:
INVERSE:
CONTRAPOSITIVE:

WRITE THE CONDITIONAL, GIVEN THE INDICATED STATEMENT.

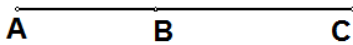
- 19) **INVERSE:** If you do not pay attention, then you will not do well on this test.
CONDITIONAL:
- 20) **CONVERSE:** If today is Friday, then I am going to the football game.
CONDITIONAL:

Which Law does the following illustrate? If a valid conclusion can be written, do so. If not, then write, "No Conclusion."

- 21) If Airline wins Friday, they will be in second place. Airline wins Friday.
- 22) If you go to the doctor, then you must be sick. If you are sick, then the doctor will give you medicine.
- 23) **GIVEN:** $-6 = 2(x + 2)$
PROVE: $x = -5$
- 24) **GIVEN:** $4 - 7x = 25$
PROVE: $x = -3$

25)

GIVEN: \overline{ABC}
 PROVE: $AB = AC - BC$

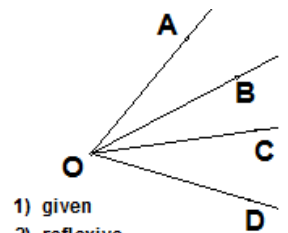


Statements	Reasons
1) \overline{ABC}	
2) $AB + BC = AC$	
3) $BC = BC$	
4) $AB = AC - BC$	

26)

GIVEN: $m\angle AOB = m\angle COD$
 PROVE: $m\angle AOC = m\angle BOD$

- 1) $m\angle AOB = m\angle COD$
 2) $m\angle BOC = m\angle BOC$
 3) $m\angle AOB + m\angle BOC =$
 $m\angle BOC + m\angle COD$
 4) $m\angle AOB + m\angle BOC =$ _____
 $m\angle BOC + m\angle COD =$ _____
 5) $m\angle AOC = m\angle BOD$



- 1) given
 2) reflexive
 3) _____
 4) \angle add. postulate
 5) substitution