

Name: _____

Conditional Statements

- 1) Identify the hypothesis and conclusion of each statement.
 - 1) If $3x + 4 = -5$, then $x = -3$.
 - 2) If you take a class in television broadcasting, then you will film a sporting event.

- 2) Write each statement in if-then form.
 - 1) A polygon with four sides is a quadrilateral.
 - 2) "Those who stand for nothing fall for anything." (*Alexander Hamilton*)
 - 3) An acute angle has a measure less than 90.

- 3) Write each statement in if-then form.
 - 1) "Those who do not remember the past are condemned to repeat it."
 - 2) Adjacent angles share a common vertex and a common side.

- 4) Identify the hypothesis and conclusion of each statement.
 - 1) If you purchase a computer and do not like it, then you can return it within 30 days.
 - 2) If $x - 8 = 4$, then $x = 12$.
 - 3) If the drama class raises \$2000, then they will go on tour.

- 5) Determine the truth value of the following statement for each set of conditions.

"If DVD players are on sale for less than \$100, then you buy one."

 - 1) DVD players are on sale for \$95 and you buy one.
 - 2) DVD players are on sale for \$100 and you do not buy one.
 - 3) DVD players are not on sale for under \$100 and you do not buy one.

- 6) Determine the truth value of the following statement for each set of conditions.

"If you finish your homework by 5 P.M., then you go out to dinner."

 - 1) You finish your homework by 5 P.M. and you go out to dinner.
 - 2) You finish your homework by 4 P.M. and you go out to dinner.
 - 3) You finish your homework by 5 P.M. and you do not go out to dinner.