NAME:

- 1. Find the inverse of the following statement. If a figure has four sides, it is a quadrilateral.
 - [A] If a figure does not have four sides, it is a quadrilateral.
 - [B] If a figure is a quadrilateral, it does not have four sides.
 - [C] If a figure has four sides, it is not a quadrilateral.
 - [D] If a figure does not have four sides, it is not a quadrilateral.
- 2. Find the inverse of the following statement. If she studies hard in math, she will succeed.
 - [A] If she does not study hard in math, she will not succeed.
 - [B] If she studies hard in math, she will not succeed.
 - [C] If she does not study hard in math, she will succeed.
 - [D] If she will succeed, then she does not study hard in math.
- 3. Find the inverse of the following statement. If you have sea water, you can make salt.
 - [A] If you don't have sea water, you can't make salt.
 - [B] If you can make salt, you do not have sea water.
 - [C] If you do not have sea water, you can make salt.
 - [D] If you have sea water, you can't make salt.
- 4. Find the inverse of the following statement. If a figure has three sides, it is a triangle.
 - [A] If a figure is a triangle, then it does not have three sides.
 - [B] If a figure does not have three sides, it is a triangle.
 - [C] If a figure has three sides, it is not a triangle.
 - [D] If a figure does not have three sides, it is not a triangle.
- 5. Write a conditional that has the same truth value as its inverse and one that has the opposite truth value as its inverse.

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- [1] D
- [2] <u>A</u>
- [3] <u>A</u>
- [4] D

Answers may vary. Samples: if x + 2 = 5, then x = 3 and if a number is negative, then it is not equal to [5] zero.