

Match each conditional statement below with the letters beside its converse, inverse, and contrapositive. Put these letters on the lines above their corresponding numbers in the code below and you will learn why hockey players don't tell jokes.

Converse	Inverse	Contrapositive	Statement
1 ____	2 ____	3 ____	If it is 9 A.M., then we are in geometry class.
4 ____	5 ____	6 ____	If two coplanar lines are parallel, then they never meet.
7 ____	8 ____	9 ____	To pass geometry, you must do your homework.
10 ____	11 ____	12 ____	If a figure is a rectangle, the opposite sides are parallel.
13 ____	14 ____	15 ____	If $\overline{XY} = \overline{YZ}$, then Y is the midpoint of $\overline{XZ}$.
16 ____	17 ____	18 ____	All triangles have 180° .
19 ____	20 ____	21 ____	Vertical angles are equal.

- K. If two coplanar lines are not parallel, then they will meet.
- A. Don't do your homework, and you won't pass geometry.
- E. If a figure's opposite sides are not parallel, then it isn't a rectangle.
- C. If we are in geometry class, then it is 9 A.M.
- C. If a figure doesn't have 180° , it's not a triangle.
- S. If Y isn't the midpoint of $\overline{XZ}$, then $\overline{XY} \neq \overline{YZ}$.
- T. If two angles are equal, then they are vertical angles.
- I. If a figure's opposite sides are parallel, it's a rectangle.
- U. If a figure has 180° , it's a triangle.
- C. If Y is the midpoint of $\overline{XZ}$, then $\overline{XY} = \overline{YZ}$.
- H. If a figure isn't a triangle, then it doesn't have 180° .
- G. If we are not in geometry class, then it is not 9 A.M.
- R. If $\overline{XY} \neq \overline{YZ}$, then Y is not the midpoint of $\overline{XZ}$.
- P. If two angles are not equal, they are not vertical.
- B. If two coplanar lines meet, then they are not parallel.
- H. If you do your homework, you'll pass geometry.
- M. If two coplanar lines never meet, then they are parallel.
- A. If a figure is not a rectangle, its opposite sides aren't parallel.
- C. To fail geometry, don't do your homework.
- I. If angles are not vertical, they are not equal.
- T. If it is not 9 A.M., then we are not in geometry class.

6 12 1 9 16 15 12 2 17 12 20 13 12 4 10 3 7 19 8 14 11 18 5 16 21