

9-18-13

5th Geo

Converse

Inverse

Contrapositive

If you live in Radford,
then you live in Virginia.

Converse (flip)

If you live in VA, then
you live in Radford.

Inverse (negate each)

If you don't live in Radford,
then you don't live in VA.

Contrapositive (flip and negate)

If you don't live in VA, then
you don't live in Radford.
TRUE.

If you like me, then you
get an A.

Converse: If you get an A, then
you like me.

Inverse: If you don't like me,
then you don't get an A.

Contrapositive: If you don't get
an A, then you don't like
me.

Change to an if, then statement

① All boys are silly.

If you are a boy, then
you are silly.

② All toys use electricity

If it is a toy, then
it uses electricity.

③ White walls are hard to clean

If it is a white wall, then
it is hard to clean.

If $2x = 8$, then $x = 4$.

Converse: If $x = 4$, then $2x = 8$.

Inverse: If $2x \neq 8$, then
 $x \neq 4$.

9-18-13
6th 6th

Converse

Inverse

Contrapositive

If you live in VA, then
you live in the U.S.A.

Converse: If you live in the U.S.A.,
then you live in VA.

Inverse: (Negate the Statement)

If you don't live in VA,
then you don't live in the U.S.A.

Contrapositive:

If you don't live in the U.S.A.,
then you don't live in VA.

If you are old, then you
are ugly.

Converse: If you are ugly,
then you are old.

Inverse: If you are not old,
then you are not ugly.

Contrapositive: If you are not
ugly, then you are not old.

Change to an if, then statement

① Boys are studmiesters.
If you are a boy, then you
are a studmiester.

② Runners are fast.
If you are a runner, then
you are fast.

③ Baseball bats hit baseballs.
If it is a baseball bat, then
it hits baseballs.

Give the converse and inverse
of

"If $5x = 10$, then $x = 2$."

Converse: If $x = 2$, then $5x = 10$.

Inverse: If $5x \neq 10$, then $x \neq 2$.