

9-7-17 5th Geo

If, then

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

Converse

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

Inverse (NOT)

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

Contrapositive

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

Think of contrapositive statement
of these:

- ① If you are 20, you can go
to an R movie.
- ② If an angle is 90, then
the angle is a right angle.

Put these statements in
an if, then statement.

① All boys are silly

If you are a boy, then you
are silly.

② Planes are fast.

If it is a plane, then it is
fast.

③ Vacuum cleaners use
electricity.

If it is a vacuum cleaner,
then it uses electricity.

Write the inverse of

"Dogs bark loudly."

If it is a dog, then it
barks loudly.

Inverse: If it is not a dog, then
it doesn't bark loudly.

"Girls are kind."

Contrapositive

"If you are a girl, then you
are kind."

If you are not kind, then
you are not a girl.

If $3x = 12$, then $x = 4$

Converse: If $x = 4$, then $3x = 12$.

Inverse: If $3x \neq 12$, then $x \neq 4$.

Contrapositive: If $x \neq 4$, then $3x \neq 12$.

9-7-17 6th Geo

If, then

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 (NOT)

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 an angle is 90° , then the
angle is a right angle.

Converse: If the angle is a
right angle, then the angle
is 90° .

Inverse: If the angle is NOT
 90° , then the angle is NOT
a right angle.

Put as if, then statements

① "Boys are smelly."

If you are a boy, then you are smelly.

② "Girls are wonderful."

If you are a girl, then you are wonderful.

③ Radios use electricity.

If it is a radio, then it uses electricity.

④ If $2x = 6$, then $x = 3$.

Inverse: If $2x \neq 6$, then $x \neq 3$.

Converse: If $x = 3$, then $2x = 6$.

Contrapositive: If $x \neq 3$, then $2x \neq 6$.

