

9-5-18 5th Geo

If you are nice,
then you can be my
friend.

Converse

If you can be my friend,
then you are nice.

Inverse

If you are not nice,
then you can not be
my friend.

Contrapositive

If you can not be my
friend, then you are not
nice.

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

Converse

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

Inverse

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

Contrapositive

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

Must write as if, then
statements.

① Boys are smelly.

If you are a boy, then you
are smelly.

② TVs are heavy.

If it is a T.V., then
it is heavy.

Give me the inverse of
"girls are nice."

If you are a girl, then you are nice.

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

③ Give converse of
"if $x=8$, then $2x=16$."

If $2x=16$, then $x=8$.

④ Give the inverse of
'if $x \neq 5$, then x isn't my
favorite variable.'

If $x=5$, then x is my
favorite variable.

9-5-18 6th Geo

If you are nice,
then you can be my friend.

Converse

If you can be my friend,
then you are nice.

Inverse

If you are not nice, then
you can NOT be my friend.

Contrapositive

If you can not be my friend,
then you are not nice.

IF you live in Radford,
you live in VA.

Converse

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

Inverse

If you don't live in Radford,
you don't live in VA. **False**

Contrapositive

IF you don't live in VA, you
don't live in Radford. **True**

Rewrite as an "if, then" statement

① Boys are Smelly.

If you are a boy, you are
Smelly.

② T.V.s are heavy.

If it is a T.V., it is heavy.

③ Give the inverse of
"if you are not 17, then
you can't go to an R movie."

If you are 17, then you
can go to an R movie.

④ Give converse of
"if $x=3$, then $4x=12$."

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

⑤ Give inverse of
"if $x \neq 3.2$, then it isn't
my favorite number."

If $x=3.2$, then it is
my favorite number.