**Write the statement in the conditional**

*1.* All mirrors are shiny.

*Conditional:*

*2.* What goes up must come down.

*Conditional:*

**Write the inverse, converse and contrapositive of the conditional.**

**Determine if each statement is True or False.**

*3. Conditional:* If you grew up in Alaska, then you have seen snow.

Converse:

Inverse:

Contrapositive:

*4. Conditional:* If $6x=18$, then $x=3$.

 Converse:

 Inverse:

 Contrapositive:

*5. Conditional:* If two lines in a plane never intersect, then they are parallel.

 Converse:

 Inverse:

 Contrapositive:

**Rewrite as a bi-conditional statement if both the conditional and converse are true.**

6.*Conditional:*  If a shape is a triangle, then it has three sides.

*7. Conditional:* If two angles are congruent, then they have the same measure.

**Determine if the statement is true or false. Then write the converse and determine if it is true or false. If it is false, then provide a counterexample.**

8. If $x^{2}=4$, then $x=-2$.

9. If Pam lives in Chicago, then she lives in Illinois.

10. If $∠A≅∠B$, then $m∠A=m∠B$.