Conditional Sentences and Logical Reasoning 2
Geometry

Identify the hypothesis and conclusion in each conditional sentence, then write the converse.

1) If you eat lasagna, then you are Italian..

2) If you stay up late, then you might see a falling star.

3) If they win the game, then they will get a trophy..

4) If the gardener waters the flowers, then they will grow.

5) The group can go to the museum, if they get a car.

6) .He will fall, if he isn't careful.

7) If he asks her out on a date, she will graciously accept the offer.

8) If you stand in front of the group, you had better know your stuff.

9) If $4x - 7 = 25$, then x = 8

10) t = 3, if $9t + 1 = 28$

Write the following sentences in conditional form.

11) Kids who go to school have lots of fun.

12) Astronauts fly in space ships.

13) Americans stand during the National Anthem.

14) Children enjoy reading nursery rhymes.

Determine whether each statement and it's converse are true or false.

15) If you get you get your family portrait, then your mom will expect you to comb your hair.

16) If you travel one mile in one minute, then you are going sixty miles per hour.

17) If a person is fat, then they are also short.

18) If the animal eats bananas, then it is a chimpanzee.

Give a counterexample for each conclusion.

19) All angles are acute.

220) All trees have leaves.

21) All quadrilaterals are squares.

22) Everybody loves the Los Angeles Lakers.

23) Girls have blond hair.

24) Every month has 30 or 31 days.

25) All trucks have four wheels.

26) Every conclusion has a counterexample

Use the following assumptions to reach a conclusion.

27)   i)   Teachers love to write on the whiteboard.
       ii). Mr. Herring is a teacher.

28)   i)   I am late to school whenever I have to
           scrape. the frost off of my windshield.
       ii) There is frost on my windshield this
           morning.

29)   i) We stand for the national anthem on
          Mondays.

       ii) It is Tuesday.

30)   i)   Leopards have spots..
       ii) That animal is a leopard.

31)   i)   John is faster than Tim.
       ii) Tim runs a five minute mile.
                   .

32)   i) Cindy earned $75.
       ii) Pam earned twice as much money as
       Cindy.

33)   i)   Brad earned 15 more points on his test than Sam.
       ii) Sam earned 3/4 of the points that Paul earned.
       iii) Paul earned twice as many points as Jim.
       iv) Jim earned 40 points on the test.

34)   i)   Lynette is taller than Amanda.
       ii) Amanda is four inches taller than Jennifer.
       iii) Jennifer is 5'2".

35)   i)   My mom makes fudge for Christmas.
       ii) When my mom makes fudge, I eat fudge.
       iii) When I eat fudge I gain weight.
       iv) When I gain weight my clothes don't fit.
       v)   It is Christmas.