REC 3.4: Gears and Gear Trains

Instructions: Please answer the questions in a different color font.

1. What can you accomplish using gear trains? (there are 4 items)
2. Find a picture of a spur gear and insert it below:
3. What are some advantages of using a helical gear? Find a picture and insert it below.
4. What is a bevel gear? Where are they found? Find a picture and insert it below.
5. What is a rack and pinion gear?

a. Where are they found?

b. Find a picture and insert it below.

6. What is a planetary gear train. Find a picture and insert it below.

7. Define:

A. Pitch

b. pitch circle

c. pressure angle

d. addendum

e. addendum circle

f. dedendum

g. dedendum circle

h. tooth clearance

8. What is a lever? Find a picture of a first class lever that has the lever arm and fulcrum labeled. Do the same for a second and third class lever.

9. What is backlash?

10. What is gnashing?

11. What is a gear ratio? Give an example.

12. What is a compound gear train?