REC 8.4: Locomotive Systems

The definitions of terms in bold may be found in the glossary.

1. Define dynamically stable.
2. Define statically stable.
3. What is the most common insect robot?
4. How did the Catepillar Company gets its name?
5. What are the advantages and disadvantages of using a tracked robot?
6. Increasing the size of the front sprocket allows the track to:
7. \_\_\_\_\_\_\_\_\_\_\_the front of the track can facilitate stair climbing.
8. Define:
   1. 2-track
   2. Half track
   3. 4-track
9. What were some of the problems with 3 wheeled ATV’s?
10. What is the problem with 4 wheeled designs?
11. How can you overcome turning problems?
12. What is an omni-wheel?
13. What are some advantages to using 6 wheels?
14. What are some turning issues with 6 wheeled robots?
15. [Holonomic (robotics)](http://en.wikipedia.org/wiki/Holonomic_(robotics)), a robot (or object) that has mechanisms to control all 6 physical degrees of freedom.