**Physics Unit 3: Concurrrent and Parallel Force Test Review**

**Test Setup:**

Matching: 24 (1 pt each ) Short Answers: 5 (5 pt each) Problems: 8 ( 6 )

**Matching:**

**Study the Quizlet on : 1. Force and Friction 2. Torque**

**Know the definitions of the following words:**

1. **Net Force**
2. **Applied force**
3. **force**
4. **Fnet**
5. **Friction**
6. **Newton**
7. **Static Friction**
8. **Kinetic friction**
9. **direction**
10. **Normal force**
11. **unbalanced force**
12. **friction coefficient**
13. **Balance force**
14. **equilibrium**
15. **translational equilibrium**
16. **fulcrum**
17. **torque**
18. **weight**
19. **lever arm**
20. **Magnitude**
21. **rotational equilibrium**
22. **center of mass**
23. **rotation**

**Short Answers:**

1. Construct a free-body diagram of a car being towed.
2. Why is force not a scalar quantity?
3. In a free-body diagram of an object, why are forces exerted by the object not included in the diagram?
4. Describe the physics behind how it is unlikely that Superman could swoop in and save Lois Lane, if she was to be pushed off the top of the Daily Planet Newspaper building by Lex Luthor.
5. Why is air resistance considered a form of friction?

**Problems:**

**Study the homework handouts on the following problem types**

Torque Problems: 3

Force of Friction problems: 3

Incline plane problem: 1

Center of mass problem: 1