Midterm - Tentatively: Wed., Nov. 22

1. Return: Quiz: U 1 - S2 Quiz

2. Still To be Returned - Test: Unit 1

3. "Bell Work" - Formative Assessment

4. Worksheet - Circular Motion

5. Unbanked and Banked Curves

6. Worksheet: Unbanked and Banked Curves - HW

7. L1- Vertical Circular Motion - Read

8. Universal Gravitation

You are responsible for knowing the uniform circular motion problems. What are the formulas for v, a_c and F_c covered in class. DO NOT USE YOUR NOTES.

$$V = \frac{2\pi r}{T}$$

$$T = \frac{1}{f}$$

$$V = 2\pi r f$$

$$a_c = \frac{v^2}{r}$$

$$a_c = \frac{\left(\frac{2\pi r}{T}\right)^2}{r} = \frac{4\pi^2 r}{T^2}$$

$$a_c = 4\pi^2 r f^2$$

$$F_c = m a_c \qquad F_c = \frac{mv^2}{r} = \frac{4m\pi^2 r}{T^2} = 4m\pi^2 r f^2$$