Honors Physics: Gravitation <b>#2</b> <b>Objectives: P3.1b, 3.1A, P3.6A,B,C,d</b> Directions: Please show knowns, formula a		Name:and solutions for full credit.	
1.	The gravitational force between two electrons 1m apart is 5.42 E -71n. Find the mass of an electron.		
	Knowns	formula	Solution
2.	What would be the earth's gravitati one earth radius above the earth's s <b>Knowns</b>		g) on a 75kg astronaut who is <b>Solution</b>
3.	If the mass of Mars is 6.6E23kg and Mars?	d its gravity is a	3.7m/s/s, what is the radius of
	Knowns	formula	Solution
4.	A 25 kg object is 201 km above the <b>Knowns</b>	e earth's surface <b>formula</b>	e. Find Solution
	mass		weight at that height
5.	<ol> <li>If the radius of a planet is 3400km and an object weighs 550n on the surface, whi is its weight when it is located at(Assume g is 15 m/s/s.)</li> </ol>		
	12km above the surface Knowns	formula	201 km above the surface <b>Solution</b>
6. Two spheres of 85kg and 65kg are 12m apart. Find the			
	force between them		
acceleration of large mass			
acceleration of small mass			
	Knowns	formula	Solution