Honors Physics: Gravitation #3Name:Objectives: P3.1b, 3.1A, P3.6A,B,C,dDirections: Please show knowns, formula and solutions for full credit.			
1.	1. The gravitational force between two identical masses 35cm apart is 7.42 E -2 Find the mass of the objects.		
	Knowns	formula	Solution
 What would be the value of gravity(g) on a 105kg astronaut who is two earth radius above the earth's surface? 			g astronaut who is two earth
	Knowns	formula	Solution
3. If the mass of Mercury is 5.6E22 kg and its gravity is 2.7m/s/s, what is the r of Mercury?			ty is 2.7m/s/s, what is the radius
	Knowns	formula	Solution
4.	A 55 kg object is 501 km a Knowns	bove the earth's surfact formula	ce. Find Solution
	mass		weight at that height
5.	 If the radius of a planet is 5500km and an object weighs 850n on the surface, what is its weight when it is located at(Assume g is 15 m/s/s.) 		
	19km above the Knowns	surface	401 km above the surface Solution
6. Two spheres of 95kg and 55kg are 3.5 E -4m apart. Find the			
	force between the	em	
	acceleration of	large mass	
acceleration of small mass			
	Knowns	formula	Solution