**Physics 20 - Lesson 22**

**Gravitational Field Strength**

/22



1)

/3

2)



/6

3)

first, find the mass of the payload



/6

second, find the distance from the center of the Earth to the rocket

r = 6.38 × 106 m + 25500 × 103 m = 3.19 × 107 m

third, calculate the weight of the payload in orbit



4)



/4

5)



/3