Mastering Physics Solutions Chapter 12 Gravity

https://www.aplustopper.com/mastering-physics-solutions-chapter-12-gravity/
http://bit.ly/2JrVY25
https://drive.google.com/drive/u/0/folders/1KhQr9G59axJUsISSbE25Ldj4tdq8qnxU
http://bit.ly/2kQg1JE
https://docs.google.com/document/d/e/2PACX-1vSBvmCCQ1mXjl9R2Ocl5InPJB62J3gzkIFCH4pMSjjIZKJqet_Ck9rH5BvQW02wL1SYGnsWZtMqhmNf/pub
http://bit.ly/2JbA0Bo
https://docs.google.com/presentation/d/e/2PACX-1vRO9G_kccM6J83mxBoi-n0aMVCKspM8tzFaS9Hm40F20FsGKufwzkuu_XshgjInGqpaRZr_SWs4VRYP/pub?start=false&loop=false&delayms=3000
http://bit.ly/2LkbB9d
https://sites.google.com/site/aplustoppernotes/mastering-physics-solutions-chapter-12-gravity
http://bit.ly/2Jsn8Ge
http://aplustoppernotes.blogspot.com/2018/06/mastering-physics-solutions-chapter-12.html
http://bit.ly/2Jch5pW
https://aplustoppernotes.wordpress.com/2018/06/05/mastering-physics-solutions-chapter-12-gravity/
http://bit.ly/2sHGixp

Chapter 12 Gravity Q.1CQ

It is often said that astronauts in orbit experience weightlessness because they are beyond the pull of Earth's gravity. Is this statement correct? Explain.

Solution:

No The force of Earth's gravity is practically as strong in orbit as it is on the surface of Earth The astronauts experience weightlessness because they are in constant free fall.

Chapter 12 Gravity Q.1P

CE System A has masses m and m separated by a distance r; system B has masses m and 2m separated by a distance 2r; system C has masses 2m and 3m separated by a distance 2r, and system D has masses 4m and 5m separated by a distance 3r. Rank these systems in order of increasing gravitational force. Indicate ties where appropriate.

Solution:

The gravitational force between two masses is directly proportional to products of their masses and inversely proportional to square of the distance between them.

$$F = \frac{G(m_1)(m_2)}{r^2}$$

If the masses are greater with less distance then the force of attraction is greater.

System D > System C > System A > System B.