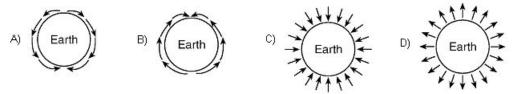
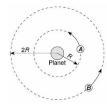
Name	Date
Regents Physics	Unit 3 WS 1
Period	Mr. Mov

Gravitational Force

1. Which diagram best represents the gravitational field lines surrounding Earth?

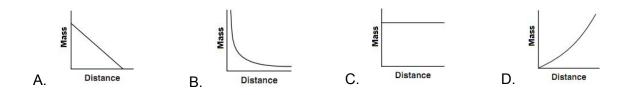


2. The diagram below represents two satellites of equal mass, A and B, in circular orbits around a planet.



Compared to the magnitude of the gravitational force between satellite A and the planet, the magnitude of the gravitational force of attraction between satellite B and the planet is

- A. 1/4th as great
- B. half as great
- C. twice as great
- D. 4 times as great
- 3. A space probe is launched into space from Earth's surface. Which graph represents the relationship between the mass of the space probe and the distance between the space probe and the center of the Earth?



- 4. An object weighs 100. Newtons on Earth's surface. When it is moved to a point one Earth radius above Earth's surface, it will weigh
- A. 25.0 N
- B. 50.0 N
- C. 100. N
- D. 400. N

