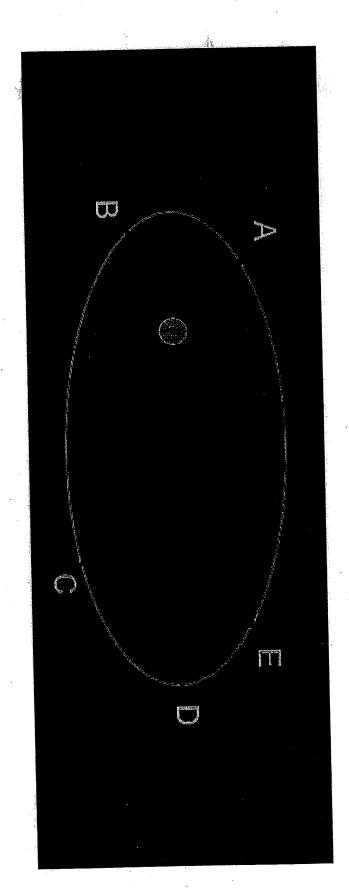
Finish reading clip 5

6P4 on DRL



The figure below shows the orbit of a comet about the sun. The comet has the greatest velocity when traveling

- A) from A to B.
- B) from B to C.
- C) from C to D.
- D) from D to E.



Problem: Saturn is about 9.7

earth is. What is the length of times as far from the sun as the

Saturn's year?

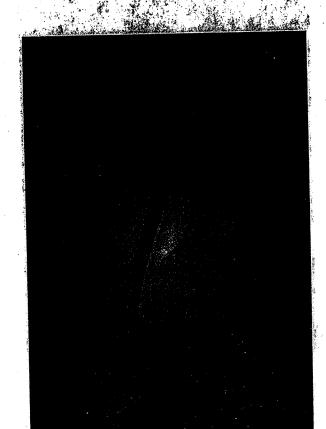
Given 13= 27/c

•••

Te= I year

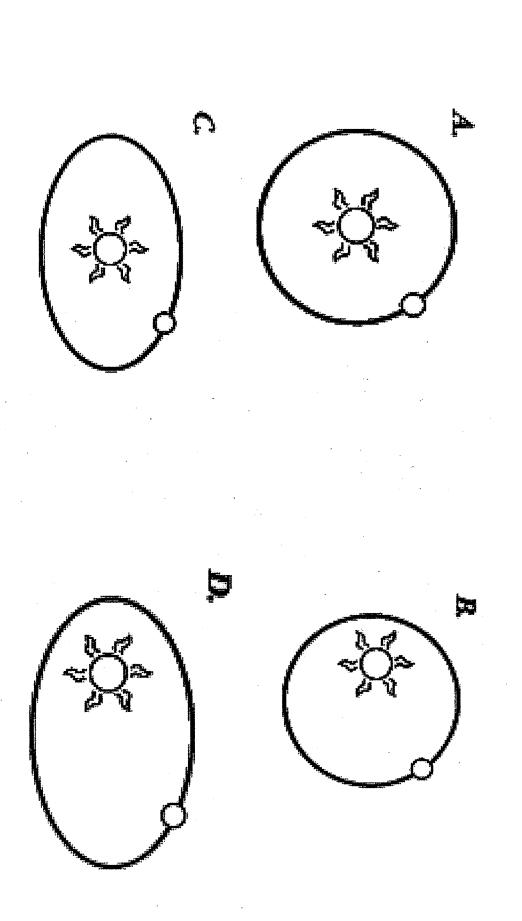
でする。

5 = 1 (1400m) (9.7)3 = 30 years





the shape of Earth's orbit around the Sun? Which of the following diagrams most accurately depicts





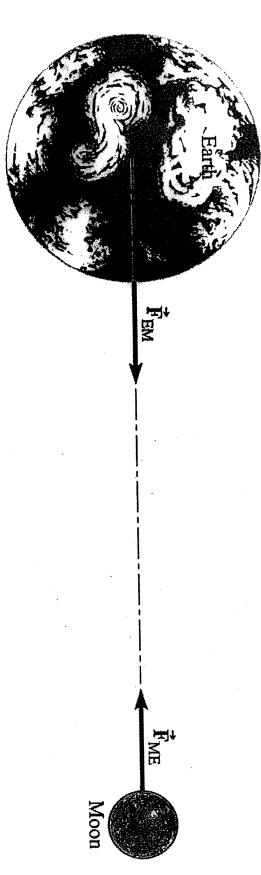
gravity of the moon is 1/6 that of the earth. A spaceship is traveling to the moon. At what point is it beyond the pull of the earth's gravity? The mass of the moon is 1/80 the mass of the earth, and the surface

- A) When it gets out of the atmosphere.
- B) When it is half-way there.
- C) When it is 5/6 of the way there.
- D) When it is 79/80 of the way there.
- E) It is never beyond the pull of earth's gravity.



# Moon's pull on the Earth? Which is stronger, the Earth's pull on the Moon, or the

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- A) The Earth's pull on the Moon
- B) The Moon's pull on the Earth
- C) They are the same
- D) It depends on other factors

### where does Taxis come from

$$T^2 = \frac{4\pi^2}{GMe} r^3$$
Constant

gravitational force on the Moon from the Earth? (b) What Problem: (a) What is the magnitude and direction of the is the magnitude and direction of the gravitational force

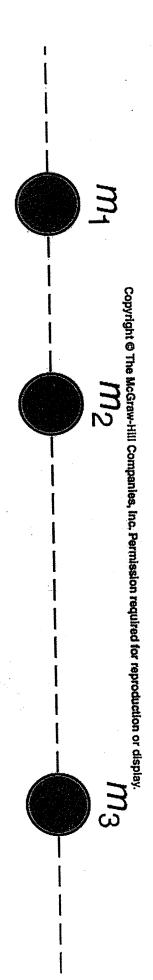


attraction between the earth and moon would be If the distance to the moon were halved, then the force of

- A) quartered.
- B) halved.
- C) unchanged
- D) doubled.
- E) quadrupled.



Three objects with equal masses are located as shown. labeled  $m_2$ ? What is the direction of the total force acting on the object



- A) To the left.
- B) To the right.
- D) It is impossible to determine from the figure C) The forces cancel such that the total force is zero.