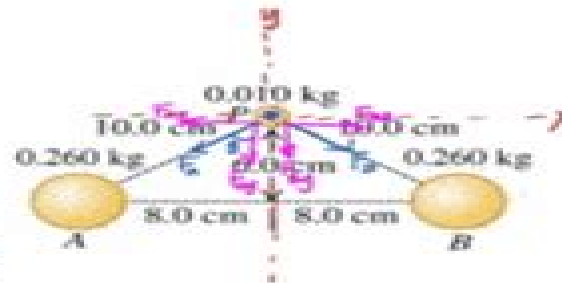


## Mastering physics chapter 13

Saturday, December 5, 2020 4:52 PM

13.5)

Two uniform spheres, each of mass  $0.260 \text{ kg}$ , are fixed at points  $A$  and  $B$  (the figure (Figure 1) ).



$$\sin \theta = 0.80$$

$$\cos \theta = 0.60$$

origin: point P

## Part A

Find the magnitude of the initial acceleration of a uniform sphere with mass  $0.010 \text{ kg}$  if released from rest at point  $P$  and acted on only by forces of gravitational attraction of the spheres at  $A$  and  $B$ .

$$F_A = G \frac{M_A M}{r^2} = G \frac{(0.260)(0.010)}{0.1^2} = 1.735 \times 10^{-10} \text{ N}$$

$$F_B = G \frac{M_B M}{r^2} = 1.735 \times 10^{-10} \text{ N}$$

$$F_{Ax} = -F_A \sin \theta = -(1.735 \times 10^{-10})(0.80) = -1.39 \times 10^{-10} \text{ N}$$

$$F_{Ay} = +F_A \cos \theta = + (1.735 \times 10^{-10})(0.60) = +1.04 \times 10^{-10} \text{ N}$$

$$F_{Bx} = +F_B \sin \theta = +1.39 \times 10^{-10} \text{ N}$$

$$F_{By} = +F_B \cos \theta = +1.04 \times 10^{-10} \text{ N}$$

$$\sum F_x = M a_x \rightarrow F_{Ax} + F_{Bx} = M a_x$$

$$0 = M a_x \rightarrow a_x = 0$$

$$\sum F_y = M a_y \rightarrow F_{Ay} + F_{By} = M a_y$$

$$2(1.04 \times 10^{-10}) = 0.010 a_y$$

$$a_y = 2.1 \times 10^{-8} \text{ m/s}^2$$

## Part B

Find the direction of the initial acceleration of a uniform sphere with mass  $0.010 \text{ kg}$ .

downward midway between A & B

13.11) Part A

At what distance above the surface of the earth is the acceleration due to the earth's gravity  $0.005 \text{ m/s}^2$  if the acceleration due to gravity at the surface has

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