## **Quiz 18.1C**

A 325-gram rubber ball has a net charge of -14.8 µC. The ball is in a region filled with a uniform electric field of 61,800 N/C directed 35.0° below the +x direction. Assume only Earth's gravity and the electric force are relevant in this problem.

What is the magnitude and direction of the acceleration experienced by the ball?

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$$|F_{g}| = (.325)(9.8) = 3.185, -y$$

$$|F_{g}| = (.4.8 \times 10^{-6})(61, 800)$$

$$= 0.9146, 35^{\circ} = 60000 - x$$

$$|F_{g}| = (.325)(9.8) = 3.185, -y$$

$$|F_{g}| = (.325)(9.8)$$