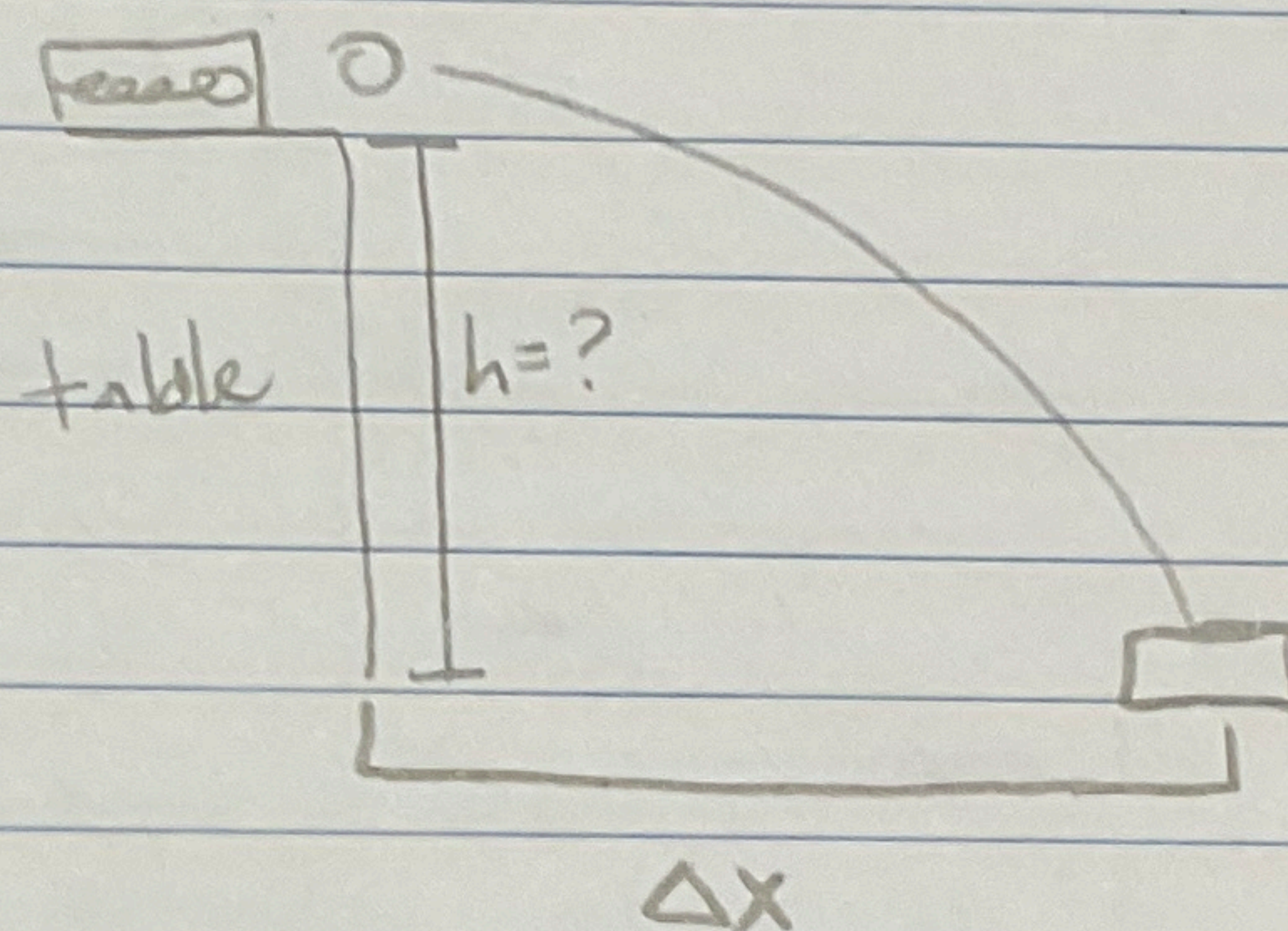


Question #9

$$27\text{cm} \times \frac{1\text{m}}{100\text{cm}} = 0.27\text{m short when compressed } 1.1\text{cm}$$

$$g = 10\text{m/s}^2$$

$$\Delta x = 2.2\text{m} \times \frac{100\text{cm}}{1\text{m}} = 220\text{cm}$$



$$mgh = \frac{1}{2}mv^2$$

$$x_1 =$$

$$gh = \frac{1}{2}v^2$$

$$2gh = v^2$$

$$\sqrt{2gh} = v$$