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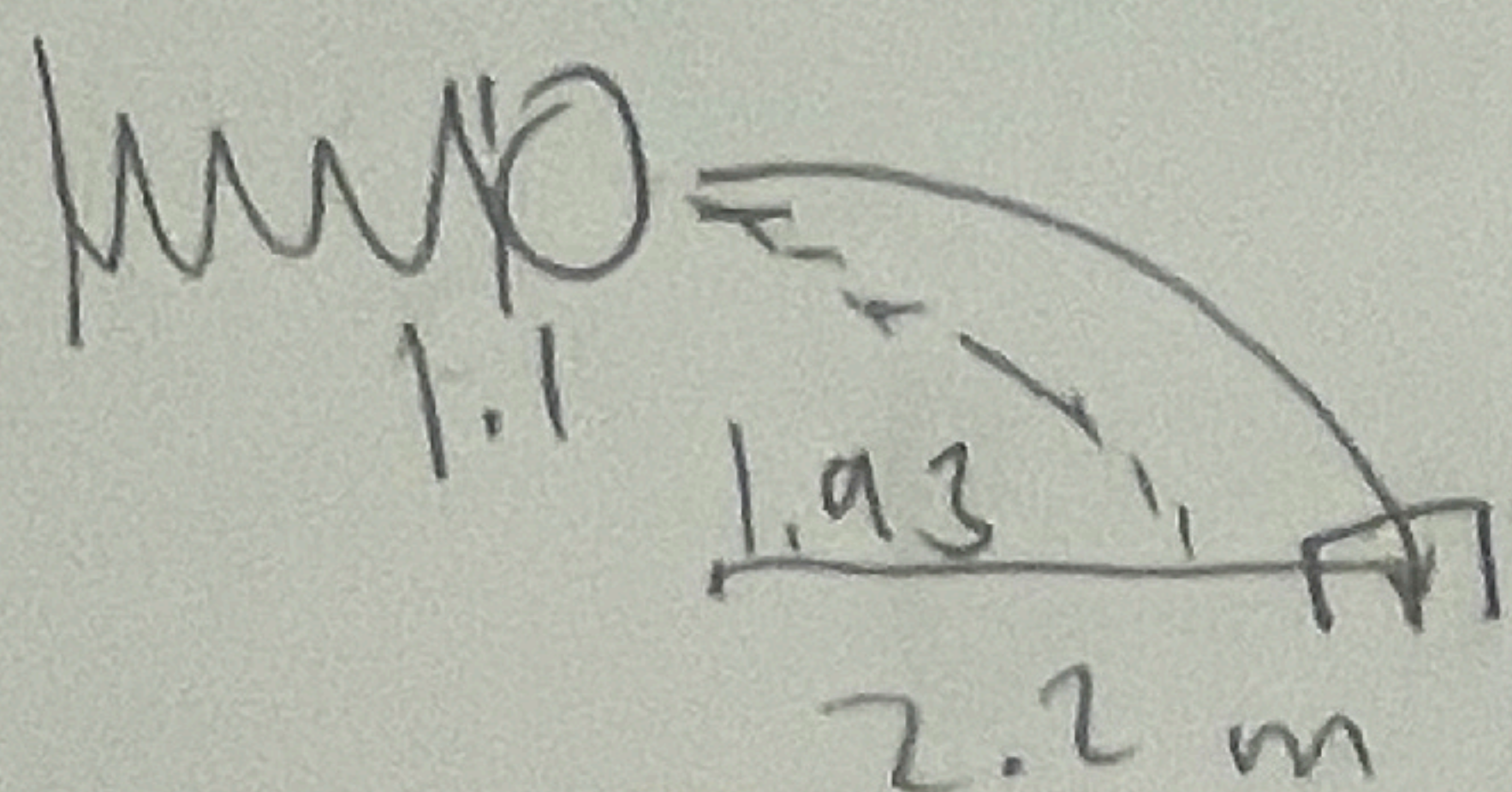

1.1

1.93

2.2 m

$$2.2 - 0.27$$
$$1.93$$

$$h = \frac{1}{2} g t^2$$

$$\frac{1}{2} m v^2 = \frac{1}{2} k x^2$$

$$\frac{1.1 \cdot 10^{-2} \cdot 2.2}{1.93}$$

$$h = \frac{1}{2} (10) t^2$$

$$v t = \sqrt{\frac{k x^2}{m}}$$

$$\frac{m v^2}{m} = \frac{k x^2}{m}$$

$$\sqrt{v^2} = \sqrt{\frac{k x^2}{m}}$$

$$0.012539 \text{ m}$$