

Physics 103M Homework 1

$$x = 13.4 \pm .2 \text{ cm}$$

$$r = 2.3 \pm .1 \text{ m}$$

$$t = 543 \pm 5 \text{ s}$$

Calculate the following quantities. Include base values, uncertainties, and units.

1. $A(x, t) = xt$

To check your understanding: the answer is $7280 \pm 200 \text{ cm} \cdot \text{s}$.

But you still need to show your work.

2. $B(r, x) = \pi r x^2$

3. $C(r, x, t) = \sqrt{t \sin\left(\frac{x}{r}\right)}$