coursera

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The Dirac Delta Function

Remember that the Dirac delta function is well-defined only after it is integrated over.

(a) Prove that $\delta(ax) = \dfrac{1}{|a|}\delta(x)$.

(b) Show that $u_c(x) = \displaystyle\int_{-\infty}^{x} \delta(x' - c)\,dx'$.

(c) Show that $\delta(x - c) = \dfrac{d}{dx}u_c(x)$.

✓ **Completed**

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