

1.  $\int_{-\infty}^{\infty} \delta(x) dx = 1$   
 2.  $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$   
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 8.  $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$   
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