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$\frac{1}{2} \left( \int_{-\infty}^{\infty} f(x) \delta(x-a) dx + \int_{-\infty}^{\infty} f(x) \delta(x-b) dx \right) = \frac{1}{2} (f(a) + f(b)) \delta(x - \frac{a+b}{2})$

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(132-1)  $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$  (12-141), and  $\int_{-\infty}^{\infty} f(x) \delta(x-a) \delta(x-b) dx = f(a) \delta(a-b)$  (12-2),  $\int_{-\infty}^{\infty} f(x) \delta(x-a) \delta(x-b) dx = f(a) \delta(a-b)$  (10-153), and  $\int_{-\infty}^{\infty} f(x) \delta(x-a) \delta(x-b) dx = f(a) \delta(a-b)$  (14-14).

...  $\int_{-\infty}^{\infty} f(x) \delta(x-a) \delta(x-b) dx = f(a) \delta(a-b)$  ...

**E** ...  $\int_{-\infty}^{\infty} f(x) \delta(x-a) \delta(x-b) dx = f(a) \delta(a-b)$  ...

...  $\int_{-\infty}^{\infty} f(x) \delta(x-a) \delta(x-b) dx = f(a) \delta(a-b)$  ...

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...  $\int_{-\infty}^{\infty} f(x) \delta(x-a) \delta(x-b) dx = f(a) \delta(a-b)$  ...

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