

1. $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$ (where δ is the Dirac delta function)
2. $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$ (where δ is the Dirac delta function)
3. $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$ (where δ is the Dirac delta function)
4. $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$ (where δ is the Dirac delta function)
5. $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$ (where δ is the Dirac delta function)

- (a) $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$ (where δ is the Dirac delta function)
- (b) $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$ (where δ is the Dirac delta function)

6. $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$ (where δ is the Dirac delta function)
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- (a) $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$ (where δ is the Dirac delta function)
- (b) $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$ (where δ is the Dirac delta function)
- (c) $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$ (where δ is the Dirac delta function)

