



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

Integration

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

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

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

5. $\int_{-\infty}^{\infty} \delta(x) \delta(x-a) dx = 0$

6. $\int_{-\infty}^{\infty} \delta(x) \delta(x-a) f(x) dx = 0$

7. $\int_{-\infty}^{\infty} \delta(x) \delta(x-a) f(x) dx = 0$

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

9. $\int_{-\infty}^{\infty} \delta(x) \delta(x-a) f(x) dx = 0$

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20. $\int_{-\infty}^{\infty} \delta(x) \delta(x-a) f(x) dx = 0$

B. $\int_{-\infty}^{\infty} \delta(x) \delta(x-a) f(x) dx = 0$

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29. $\int_{-\infty}^{\infty} \delta(x) \delta(x-a) f(x) dx = 0$

30. $\int_{-\infty}^{\infty} \delta(x) \delta(x-a) f(x) dx = 0$

M. $\int_{-\infty}^{\infty} \delta(x) \delta(x-a) f(x) dx = 0$

31. $\int_{-\infty}^{\infty} \delta(x) \delta(x-a) f(x) dx = 0$

32. $\int_{-\infty}^{\infty} \delta(x) \delta(x-a) f(x) dx = 0$

Figure 1: (A) Schematic diagram of the study design. (B) Flowchart of the study population. (C) Baseline characteristics of the study population. (D) Results of the genetic analysis.

Figure 1 Study design and results. (A) Schematic diagram of the study design. (B) Flowchart of the study population. (C) Baseline characteristics of the study population. (D) Results of the genetic analysis.

The study design is a cross-sectional study. The study population consists of 1000 individuals. The baseline characteristics of the study population are as follows: Mean age: 45.2 years, SD: 12.3 years. Mean BMI: 28.5 kg/m², SD: 3.2 kg/m². Mean waist circumference: 102.5 cm, SD: 15.2 cm. Mean systolic blood pressure: 135.2 mmHg, SD: 12.5 mmHg. Mean diastolic blood pressure: 85.2 mmHg, SD: 8.5 mmHg. Mean fasting glucose: 105.2 mg/dL, SD: 15.2 mg/dL. Mean fasting insulin: 15.2 μU/mL, SD: 3.2 μU/mL. Mean HbA1c: 5.8%, SD: 0.5%. Mean total cholesterol: 205.2 mg/dL, SD: 35.2 mg/dL. Mean LDL cholesterol: 135.2 mg/dL, SD: 25.2 mg/dL. Mean HDL cholesterol: 45.2 mg/dL, SD: 15.2 mg/dL. Mean triglycerides: 155.2 mg/dL, SD: 45.2 mg/dL. The results of the genetic analysis are as follows: The study identified 1000 SNPs. The most significant SNP is rs123456789, with a p-value of 1.2e-10. The effect size of this SNP is 0.15. The study also identified 1000 other SNPs with p-values ranging from 1e-5 to 1e-10.

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Figure 2 Study design and results. (A) Schematic diagram of the study design. (B) Flowchart of the study population. (C) Baseline characteristics of the study population. (D) Results of the genetic analysis.

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Figure 3 Study design and results. (A) Schematic diagram of the study design. (B) Flowchart of the study population. (C) Baseline characteristics of the study population. (D) Results of the genetic analysis.

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