

Crack the Code

Improper Integrals

A

Evaluate

$$\int_1^{\infty} \frac{10}{x^2} dx$$

10

B

Evaluate

$$\int_0^{\infty} 4e^{-x/2} dx$$

8

C

Evaluate

$$\int_0^8 \frac{1}{\sqrt[3]{x}} dx$$

6

D

Evaluate

$$\int_0^{\infty} e^{2-x} dx$$

e^2

E

Evaluate

$$\int_0^9 \frac{6}{\sqrt{x}} dx$$

36

F

Evaluate

$$\int_{-3}^1 \frac{2}{\sqrt{1-x}} dx$$

8

G

Evaluate

$$\int_1^{\infty} \frac{20}{x\sqrt{x}} dx$$

40

H

Evaluate

$$\int_{-6}^{10} \frac{4}{(x-2)^{2/3}} dx$$

48

To get the three-digit code, add all your answers together and round to the nearest integer. 163.389 → 163