

A

$$\text{Answer: } \frac{2}{3} (1 + 2x)^{\frac{3}{2}} + C$$

Question: Find $\int 3\cos(3x) dx$

B

$$\text{Answer: } y = -\frac{1}{1-2x} + C$$

Question: Find $\int 2 \sec(2x) \tan(2x) dx$

C

$$\text{Answer: } \frac{u^2}{2} + C$$

Question: Find y if $y' = 2x \sqrt{1 + x^2}$

D

Answer: $e^{x^2} + C$

Question: Find y if $y' = \frac{-2}{(1-2x)^2}$

E

$$\text{Answer: } -\frac{1}{2}(2x^2 + 1)^{-2} + C$$

Question: Find $\int u du$

F

Answer: $\sqrt{1 - x^2} + C$

Question: $\int 2x e^{x^2} dx$

G

Answer: $\ln |\sin(x)| + C$

Question: Find $\int \frac{4x}{(2x^2+1)^3} dx$

H

Answer: $\sin(3x) + C$

Question:

$$\int \frac{1}{2} (1 - x^2)^{-\frac{1}{2}} (-2x) dx$$

I

Answer: $\sec(2x) + C$

Question: Find $\int \frac{\cos(x)}{\sin(x)} dx$

KEY

Answer → Question

A → C

B → D

C → E

D → F

E → G

F → H

G → I

H → A

I → B