

1.(1 pt) Find the value of  $\int_0^{\pi/4} \cos(2x)dx$ .

Note: The notation  $\int_0^a f(x)dx$  is read "the integral from 0 to a of f(x) de x."

Remember: The angles for sin and cosine are always (well... almost always) in radians!

2.(1 pt) Find the value of  $\int_0^{\pi/4} \cos(5x) dx$ .

Note: The notation  $\int_0^a f(x)dx$  is read "the integral from 0 to a of f(x) de x."

Remember: The angles for sin and cosine are always (well... almost always) in radians!

3.(1 pt) Find the value of  $\int_0^{\pi/3} \sin(2x) \sin(x) dx$ .

4.(1 pt) Find the value of  $\int_0^{\pi/6} \cos(x) \sin(\sin(x))dx$ .

5.(1 pt) Evaluate the definite integral.

$$\int_5^{15} \sin^2(8x) \cos^2(8x) dx$$

6.(1 pt) Evaluate the definite integral.

$$\int_0^{\pi/2} \sin^5 x \cos^6 x dx$$

7.(1 pt) Evaluate the definite integral.

$$\int_{-\frac{\pi}{14}}^{\frac{\pi}{11}} \tan^2(2x) dx$$

8.(1 pt) Evaluate the indefinite integral.

$$\int 60 \cos^3(6x) dx$$

9.(1 pt) Evaluate the indefinite integral.

$$\int 89 \cos^2(33x) dx$$

10.(1 pt) Evaluate the indefinite integral.

$$\int \sin^3(9x) \cos^7(9x) dx$$

+C

11.(1 pt)  $\int_0^{\pi/6} \sin^4(6x) dx =$  \_\_\_\_\_

12.(1 pt) Evaluate the indefinite integral.

$$\int 210 \cos^4(14x) dx$$

+C

13.(1 pt) Evaluate the indefinite integral.

$$\int \sin(7x) \sin(16x) dx$$

[NOTE: Remeber to enter all necessary \*, (, and ) !!

Enter arctan(x) for  $\tan^{-1}x$ , sin(x) for  $\sin x$  ... ]

14.(1 pt) Evaluate the definite integral.

$$\int_0^{\frac{\pi}{24}} \frac{\sec^{12}(8x)}{\cot(8x)} dx$$

[NOTE: Remeber to enter all necessary \*, (, and ) !!

Enter arctan(x) for  $\tan^{-1}x$ , sin(x) for  $\sin x$  . ]

15.(1 pt) Evaluate the indefinite integral.

$$\int \sin(7x) \cos(13x) dx$$

[NOTE: Remeber to enter all necessary \*, (, and ) !!

Enter arctan(x) for  $\tan^{-1}x$ , sin(x) for  $\sin x$  . ]

16.(1 pt) Evaluate the indefinite integral.

$$\int 24x^5 \sec^4(x^6) dx$$

+C