

Name: _____

Trigonometric Integrals

1) Find the indefinite integrals.

1) $\int \sin 4x \sin 3x dx$

2) $\int \cos 3t \cos 6t dt$

3) $\int \sin 2x \cos^3 2x dx$

4) $\int \sin x \cos^5 x dx$

5) $\int \cos\left(x + \frac{\pi}{4}\right) \sin^2\left(x + \frac{\pi}{4}\right) dx$

6) $\int \frac{\cos x}{(1 + \sin x)^5} dx$

7) $\int \frac{\sin 3x}{\cos^4 3x} dx$

8) $\int \cos^3 x dx$

9) $\int \sin(x+1) \cos^2(x+1) dx$

10) $\int \frac{\cos 3x}{\sin^7 3x} dx$

11) $\int \frac{\cos 5x}{\sin^7 5x} dx$

12) $\int \frac{\cos 7x}{\sin^5 7x} dx$