

BC CALCULUS PRACTICE 8.3

Name: _____ Period _____

Aisle _____

pg. 529; 1, 3, 9, 19, 25, 31, 35, 41, 49; Optional: 37, 47

Show all necessary work neatly.

Evaluate the integrals.

1. $\int \cos^3 x \sin x dx$	3. $\int \sin^2 5\theta d\theta$
9. $\int \sin^2 t \cos^3 t dt$	19. $\int_0^{\pi/3} \sin^4 3x \cos^3 3x dx$
25. $\int e^{-x} \tan(e^{-x}) dx$	31. $\int \tan 4x \sec^4 4x dx$

$$35. \int \tan^4 x \sec x \, dx$$

$$41. \int \tan^3 4x \, dx$$

$$49. \int \cot^3 x \csc^3 x \, dx$$

(Optional)

$$37. \int \sec^3 t \tan t \, dt$$

(Optional) 47.

$$\int_0^{\frac{\pi}{2}} \tan^5 \frac{x}{2} \, dx$$