In-class Activity 7.2 **Dr. Jorge Basilio**

PASADENA
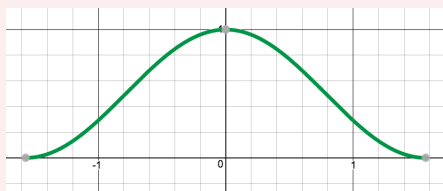CITY COLLEGE®

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Activity 1: Case: at least one ODD

Evaluate:

(a) $\int \sin^3(x)\,dx$

(b) $\int \sin^4(x)\cos^5(x)\,dx$

Activity 2: Case: EVEN

(a) Find the area under the curve $y = \cos^2(x)$ where $-\frac{\pi}{2} \le x \le \frac{\pi}{2}$.

(b) Find: $\int \cos^4(x)\,dx$

Activity 3:

Evaluate:

(a) Find: $\displaystyle\int \tan^3(x)\sec^5(x)\,dx$

(b) Find: $\displaystyle\int \tan^2(x)\sec^4(x)\,dx$

Activity 4:

Use IBP to evaluate: $\displaystyle\int \sec^3(x)\,dx$

Activity 5:

Find: $\displaystyle\int \sin(4x)\cos(3x)\,dx$