Lesson 7-3 **Trigonometric Techniques of Integration**

1- Evaluate $\int cosx\ sin^4x\ dx$

Choose 1 answer

A- $= -\frac{1}{5}sin^5x\ + c$

B- $= \frac{1}{5}sin^5x\ + c$

C- $= \frac{1}{5}cos^5x\ + c$

D- $= -\frac{1}{5}cos^5x\ + c$

2- Evaluate $\int cos^3x\ sin^4x\ dx$

Choose 1 answer

A- $= -\frac{1}{7}sin^7x\ + \frac{1}{5}sin^5x + c$

B- $= \frac{1}{7}sin^7x\ - \frac{1}{5}sin^5x + c$

C- $= -\frac{1}{7}cos^7x\ - \frac{1}{5}sin^5x + c$

D- $= \frac{1}{7}sin^7x\ + \frac{1}{5}cos^5x + c$

3- Evaluate $\int_0^{\frac{\pi}{4}} cos2x\ sin^3 2x dx$

Choose 1 answer

A- 0.4

B- 0.375

C- 0.125

D- 0.5

4- Evaluate $\int_0^{\frac{\pi}{2}} sinx\ cos^2xdx$

Choose 1 answer

A- 1

B- 0.5

C- 0.667

D- 0.333

LIVEWORKSHEETS