

Review: $\int \sin x \cos^5 x \, dx$

Review: Pythagorean Identities

	Identities	Rewrite	Rewrite
1.			
2.			
3.			

One Piece is Odd ☺Example One: $\int \sin^3 x \, dx$ Example Two: $\int \sin^4 x \cos^5 x \, dx$

Review: Double-Angle Formulas

$\sin^2 x$		
$\cos^2 x$		

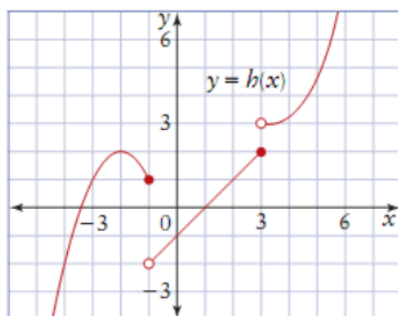
No Piece is Odd ☹Example Three: $\int \sin^2 x \, dx$ Example Four: $\int \sin^4 x \, dx$ Example Five: $\int \sin^2 x \cos^4 x \, dx$

More Practice: Definite Integrals

1. $\int_0^{\frac{\pi}{2}} \sin^7 x \, dx$

2. $\int_{\frac{\pi}{2}}^{\pi} \sin^2 y \cos^2 y \, dy$

Review of Limits



- | | |
|-------------------------------------|-------------------------------------|
| a) $\lim_{x \rightarrow -1^-} h(x)$ | b) $\lim_{x \rightarrow -1^+} h(x)$ |
| c) $\lim_{x \rightarrow -1} h(x)$ | d) $h(-1)$ |
| e) $\lim_{x \rightarrow 3^-} h(x)$ | f) $\lim_{x \rightarrow 3^+} h(x)$ |
| g) $\lim_{x \rightarrow 3} h(x)$ | h) $h(3)$ |