INTEGRALS OF THE TYPE f'(x) (f(x))n

1 Find: **(a)** $\int \sin x \cos^2 x \, dx$ **(b)** $\int \tan x \sec^2 x \, dx$ **(c)** $\int \sin x \cos^3 x \, dx$

INTEGRALS OF THE TYPE f'(x) (f(x))n

1 Find: **(d)** $\int \cos x \sin^4 x \, dx$ **(e)** $\int (1+\cos 2x)\sin x \, dx$ **(f)** $\int \sin x \cos x \, dx$

INTEGRALS OF THE TYPE f'(x) (f(x))n

2 Evaluate: **(a)** $\int_{\frac{\pi}{4}}^{\frac{\pi}{2}} \sin x \cos^3 x \, dx$ **(c)** $\int_0^{\frac{\pi}{4}} \tan x \sec^2 x \, dx$

INTEGRALS OF THE TYPE f'(x) (f(x))n

2 Evaluate: **(e)** $\int_0^{\pi} 2\sin\theta\cos^2\theta\, d\theta$ **(f)** $\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \cos^2\left(x-\frac{\pi}{4}\right)dx$