

## Homework on Trigonometric integrals - Set 1

■ 1.

$$\int \sin^3(x) \cos^5(x) dx$$

■ 2.

$$\int \sin^4(x) \cos^3(x) dx$$

■ 3.

$$\int \sin^2(x) \cos^2(x) dx$$

■ 4.

$$\int \frac{\cos^3(x)}{\sqrt{\sin(x)}} dx$$

■ 5.

$$\int \sec^6(x) \tan^2(x) dx$$

■ 6

$$\int \tan^4(x) dx \text{ Or (afternoon class) } \int \tan^6(x) dx$$

■ 7

$$\int \sec^7(x) \tan^5(x) dx$$

■ 8

$$\int \sec^3(x) dx$$

■ 9

$$\int \sec^6(x) dx$$

■ 10

$$\int \tan^2(x) \cos^3(x) dx$$