**some standard trig problems**

1.
$$\int \cos^2 x \, dx$$

2.
$$\int \sin^3 x \, dx$$

3.
$$\int \cos^3 x \sin^2 x \, dx$$

4.
$$\int \cot x \, dx$$

5.
$$\int \csc x \, dx$$

6.
$$\int \sin^2 x \cos^2 x \, dx$$

7.
$$\int \sec x \tan x \, dx$$

8.
$$\int \tan^2 x \, dx$$

9.
$$\int \sec^2 x \tan^2 x \, dx$$

10.
$$\int \sec^3 x \tan^5 x \, dx$$