

1.  $\int x^2 \sqrt{4-x^2} dx$

2.  $\int \frac{e^x}{4-e^{2x}} dx$

3.  $\int \frac{\arctan \sqrt{x}}{\sqrt{x}} dx$

4.  $\int \sqrt{e^{2x}-1} dx$

5.  $\int x^3 \sqrt{4x^2-x^4} dx$

6.  $\int \frac{\cos x}{\sin^2 x - 9} dx$

7.  $\int \frac{x^2}{(1+x^2)^2} dx$

8.  $\int x e^x \cos x dx$

9.  $\int \frac{1}{(3x+7)\sqrt{x+2}} dx$

10.  $\int \frac{2}{\sqrt{x}-3\sqrt[4]{x}+2} dx$

11.  $\int \frac{x^4+1}{x^6+1} dx$

12.  $\int e^x \sin(\alpha x - 3) dx$