Instrucciones Debe resolver los ejercicios paso a paso de la tarea-taller Antiderivadas que corresponde al número de su grupo.

**Grupo 1**

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

2. $\int t^3 e^t\, dt$

3. $\int sen^4 2\theta\, d\theta$

4. $\int \frac{1}{u^2 \sqrt{u^2 - 8}}\, du$

5. $\int \frac{x+4}{x^3 + 4x}\, dx$

**Grupo 2**

1. $\int (x^2 - 2x + 1)^3\, dx$

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

3. $\int sen^6 \theta\, d\theta$

4. $\int \frac{x}{\sqrt{x^2 - 9}}\, dx$

5. $\int \frac{1}{16x^4 - 1}\, dx$

**Grupo 3**

1. $\int \frac{t}{\sqrt{t+3}} \, dt$

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

3. $\int \cos^6 \theta \, d\theta$

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

5. $\int \frac{x}{x^3+2x^2+x+2} \, dx$


**Grupo 4**

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

2. $\int (t-1)^3 e^{t-1} \, dt$

3. $\int \operatorname{sen}^6 \frac{x}{2} \, dx$

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

5. $\int \frac{x^2+3x+3}{x^3+x^2+x+1} \, dx$


**Grupo 5**

1. $\int \frac{3x}{(x+5)^4} \, dx$

2. $\int x^3 e^{-x/3} \, dx$

3. $\int \cos^6 3x \, dx$

4. $\int \frac{\sqrt{x^2-9}}{x} \, dx$

**5.** $\int \frac{2x^3-4x-8}{(x^2-x)(x^2+4)} dx$

## Grupo 6

**1.** $\int \frac{x^3}{(x^2+4)^{3/2}} dx$

**2.** $\int \ln|x+3| \ dx$

**3.** $\int \tan^4 x \ dx$

**4.** $\int \frac{1}{x\sqrt{x^2+4}} dx$

**5.** $\int \frac{10}{(x-1)(x^2+9)} dx$

## Grupo 7

**1.** $\int \frac{x^3}{\sqrt{1-2x^2}} dx$

**2.** $\int \ln|2x+1| \ dx$

**3.** $\int \csc^6 x \ dx$

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

**5.** $\int \frac{x^2-x+6}{x^3+3x} dx$

**Grupo 8**

1. $\int x^7 \sqrt[3]{x^4 + 1} \, dx$

2. $\int (x^2 - 2x + 3x) \, \ln|x| \, dx$

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

4. $\int \frac{\sqrt{9-x^2}}{x^2} dx$

5. $\int \frac{x^2-x-5}{x^3+x^2-2} dx$

**Grupo 9**

1. $\int \frac{x^3}{(x^2+4)^{3/2}} dx$

2. $\int t^3 e^t dt$

3. $\int \cos^6 3x \, dx$

4. $\int \frac{1}{x\sqrt{x^2+4}} \, dx$

5. $\int \frac{1}{16x^4-1} dx$