Alumno/a: _____ DNI: _____

# Relación nº 1
## Licenciatura de Geológicas
### 18/10/06

Calcular las siguientes integrales indefinidas:

1. $\int \text{ctg}\,(5x-7)\,dx$

2. $\int \frac{\ln x}{x}\,dx$

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

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

5. $\int \frac{\text{arc sen}\,x}{\sqrt{1-x^2}}\,dx$

6. $\int \frac{\text{sen}\,3x}{\sqrt[3]{\cos^4 3x}}\,dx$

7. $\int \frac{dx}{x\ln x}$

8. $\int \frac{(a^x-b^x)^2}{a^x b^x}\,dx$

9. $\int \frac{dx}{\sqrt{x}\sqrt{1+\sqrt{x}}}$

10. $\int \frac{\cos^3 x}{\text{sen}^4 x}\,dx$

Calcular las siguientes integrales indefinidas:

1. $\int \frac{dx}{3x^2-2x+4}$

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

3. $\int \frac{7x+1}{6x^2+x-1}\,dx$

4. $\int \frac{6x^4-5x^3+4x^2}{2x^2-x+1}\,dx$

5. $\int \frac{dx}{2\cos^2 x+\text{sen}\,x\cos x+\text{sen}^2 x}$

Calcular las siguientes integrales indefinidas:

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

2. $\int \frac{dS}{\sqrt{2aS+S^2}}$

3. $\int \frac{dx}{\sqrt{5-7x-3x^2}}$

4. $\int \frac{x+3}{\sqrt{4x^2+4x+3}}\,dx$

5. $\int \frac{3x+5}{\sqrt{x(2x-1)}}\,dx$

Calcular las siguientes integrales indefinidas:

1. $\int x \ln x \, dx$

2. $\int \ln x \, dx$

3. $\int \ln(1-x) \, dx$

4. $\int \operatorname{arc\,sen} x \, dx$

5. $\int x \operatorname{arc\,tg} x \, dx$

6. $\int x \operatorname{arc\,sen} x \, dx$

7. $\int \frac{\operatorname{arc\,sen} \sqrt{x}}{\sqrt{x}} \, dx$

8. $\int \frac{x \operatorname{arc\,sen} x}{\sqrt{1-x^2}} \, dx$

9. $\int \frac{\operatorname{arc\,sen} x}{x^2} \, dx$

10. $\int \ln(x + \sqrt{1+x^2}) \, dx$

11. $\int \operatorname{arc\,sen} x \frac{x}{\sqrt{(1-x^2)^3}} \, dx$