

**Esercitazione sugli integrali indefiniti**  
**di funzioni razionali o irrazionali fratte**

- 1)  $\int \frac{dx}{5x^2 + x + 1} =$
- 2)  $\int \frac{dx}{9x^2 + 6x + 1} =$
- 3)  $\int \frac{\pi dx}{x^2 - 2\pi x + \pi^2} =$
- 4)  $\int \frac{2x + 2}{x^2 + 2x + 1} dx =$
- 5)  $\int \frac{3x - 7}{x^2 - 2x + 9} dx =$
- 6)  $\int \frac{5x + 2}{3x^2 + x + 2} dx =$
- 7)  $\int \frac{x + 1}{2x^2 - x + 1} dx =$
- 8)  $\int \frac{x^2 + 3}{5x^2 + x - 6} dx =$
- 9)  $\int \frac{x}{x^2 + 10x + 25} dx =$
- 10)  $\int \frac{x^3 + 6}{x^2 + x + 2} dx =$
- 11)  $\int \frac{dx}{1 + 4x^2} =$
- 12)  $\int \frac{dx}{2 + 10x^2} =$
- 13)  $\int \frac{3dx}{4 + 8x^2} =$
- 14)  $\int \frac{2dx}{1 + 5x^2} =$
- 15)  $\int \frac{dx}{1 + (7x - 8)^2} =$
- 16)  $\int \frac{(2x + 3)dx}{1 + (x^2 + 3x)^2} =$
- 17)  $\int \frac{x - 6}{16x^2 + 1} dx =$
- 18)  $\int \frac{3x + 20}{8x^2 + 1} dx =$
- 19)  $\int \frac{dx}{\sqrt{1 - 3x^2}} =$

$$20) \int \frac{x+2}{\sqrt{1-4x^2}} dx =$$

$$21) \int \frac{8x-1}{1+(4x^2-x)^2} dx =$$