

Esercizi su integrali - 2

Calcolare i seguenti integrali definiti di funzioni razionali

$$1. \int_1^5 \frac{x+2}{x+3} dx$$

$$2. \int_2^3 \frac{3x+5}{2x-1} dx$$

$$3. \int_{-2}^2 \frac{4x}{x-3} dx$$

$$4. \int_2^4 \frac{x^2}{x+1} dx$$

$$5. \int_0^1 \frac{1}{x^2+3x+2} dx$$

$$6. \int_1^2 \frac{3x+2}{4x^2-1} dx$$

$$7. \int_0^1 \frac{x^3-1}{2x^2+5x+2} dx$$

$$8. \int_{1/2}^{2/3} \frac{x^2+x}{x^2-2} dx$$

$$9. \int_2^4 \frac{x-1}{2x^2+3x+4} dx$$

$$10. \int_1^5 \frac{x^3+1}{2x^2+5} dx$$

$$11. \int_1^3 \frac{x^4+1}{x(x+1)(x+2)} dx$$

$$12. \int_2^3 \frac{2x+1}{x^3-x} dx$$

$$13. \int_1^3 \frac{3x+4}{x(x^2+2x+3)} dx$$

$$14. \int_1^2 \frac{3x-2}{x^2(x+1)} dx$$

$$15. \int_2^3 \frac{1}{(x-x^2)^2} dx$$

$$16. \int_1^2 \frac{x^3}{(x+1)(9x^2-1)} dx$$

$$17. \int_2^3 \frac{x}{x^4-1} dx$$

$$18. \int_1^4 \frac{1}{x^4+x^3+x^2} dx$$