

Evaluate the integrals

1. 
$$\int \frac{8x+5}{2x^2+3x+1} dx$$

2. 
$$\int \frac{2x^2+7x+4}{x^3+2x^2+2x} dx$$

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

4. 
$$\int \frac{3x^3+4x^2+6x}{(x+1)^2(x^2+4)} dx$$

5. 
$$\int \frac{x^2-4}{x^2+4} dx$$

6. 
$$\int_0^{\sqrt{3}/2} \frac{4}{9+4x^2} dx$$

7. 
$$\int \frac{dx}{x^2-2x-15}$$

8. 
$$\int \frac{dx}{x^3-2x^2}$$

9. 
$$\int_0^1 \frac{dx}{(x+1)(x^2+1)}$$

10. 
$$\int_0^2 \frac{dx}{\sqrt[3]{|x-1|}}$$

11. 
$$\int_{-1}^1 \frac{dx}{x^2+2x+5}$$

12. 
$$\int \frac{dx}{x^2-x-2}$$

13. 
$$\int \frac{3x^2+x-3}{x^2-1} dx$$

14. 
$$\int \frac{2x^2-4x}{x^2-4} dx$$