Evaluate the integrals

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

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

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

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

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

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

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

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

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

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