

Indefinite Integrals III - Worksheet

Compute the following indefinite integrals.

1. $\int \frac{dx}{x^2 - 5x - 6}$

6. $\int \frac{dx}{x^4 - 16}$

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

7. $\int x^2 \sin(x) dx$

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

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

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

9. $\int \frac{\sqrt{a^2 + x^2}}{x^2} dx$

5. $\int \sqrt{1 + 4x^2} dx$

10. $\int e^x \sqrt{4 - e^{2x}} dx$