

Exercise 10: Indefinite Integrations

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

$= \int x^{-2} dx$
 $= \frac{x^{-2+1}}{-2+1}$
 $= \frac{x^{-1}}{-1}$
 $= -\frac{1}{x} + C$

2. $\int \frac{1}{x^2+1} dx$
 $\frac{1}{x^2+1} = \frac{1}{(x-i)(x+i)}$
 $\frac{1}{(x-i)(x+i)} = \frac{A}{x-i} + \frac{B}{x+i}$
 $1 = A(x+i) + B(x-i)$
 $1 = Ax + Ai + Bx - Bi$
 $1 = (A+B)x + (A-B)i$
 $A+B = 0$
 $A-B = -i$
 $A = -\frac{i}{2}$
 $B = \frac{i}{2}$
 $\frac{1}{x^2+1} = \frac{-\frac{i}{2}}{x-i} + \frac{\frac{i}{2}}{x+i}$
 $\int \frac{1}{x^2+1} dx = \frac{-i}{2} \ln|x-i| + \frac{i}{2} \ln|x+i| + C$

3. $\int \frac{1}{x^2-1} dx$
 $\frac{1}{x^2-1} = \frac{1}{(x-1)(x+1)}$
 $\frac{1}{(x-1)(x+1)} = \frac{A}{x-1} + \frac{B}{x+1}$
 $1 = A(x+1) + B(x-1)$
 $1 = Ax + A + Bx - B$
 $1 = (A+B)x + (A-B)$
 $A+B = 0$
 $A-B = 1$
 $A = \frac{1}{2}$
 $B = -\frac{1}{2}$
 $\frac{1}{x^2-1} = \frac{\frac{1}{2}}{x-1} - \frac{\frac{1}{2}}{x+1}$
 $\int \frac{1}{x^2-1} dx = \frac{1}{2} \ln|x-1| - \frac{1}{2} \ln|x+1| + C$

4. $\int \frac{1}{x^2+4} dx$
 $\frac{1}{x^2+4} = \frac{1}{(x+2i)(x-2i)}$
 $\frac{1}{(x+2i)(x-2i)} = \frac{A}{x+2i} + \frac{B}{x-2i}$
 $1 = A(x-2i) + B(x+2i)$
 $1 = Ax - 2Ai + Bx + 2Bi$
 $1 = (A+B)x + (-2A+2B)i$
 $A+B = 0$
 $-2A+2B = -i$
 $A = \frac{i}{4}$
 $B = -\frac{i}{4}$
 $\frac{1}{x^2+4} = \frac{\frac{i}{4}}{x+2i} - \frac{\frac{i}{4}}{x-2i}$
 $\int \frac{1}{x^2+4} dx = \frac{i}{4} \ln|x+2i| - \frac{i}{4} \ln|x-2i| + C$

5. $\int \frac{1}{x^2+2x+2} dx$
 $\frac{1}{x^2+2x+2} = \frac{1}{(x+1)^2+1}$
 $\int \frac{1}{(x+1)^2+1} dx = \frac{1}{2} \ln|x+1-i| - \frac{1}{2} \ln|x+1+i| + C$

6. $\int \frac{1}{x^2+1} dx$
 $\frac{1}{x^2+1} = \frac{1}{(x-i)(x+i)}$
 $\frac{1}{(x-i)(x+i)} = \frac{A}{x-i} + \frac{B}{x+i}$
 $1 = A(x+i) + B(x-i)$
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7. $\int \frac{1}{x^2-1} dx$
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8. $\int \frac{1}{x^2+4} dx$
 $\frac{1}{x^2+4} = \frac{1}{(x+2i)(x-2i)}$
 $\frac{1}{(x+2i)(x-2i)} = \frac{A}{x+2i} + \frac{B}{x-2i}$
 $1 = A(x-2i) + B(x+2i)$
 $1 = Ax - 2Ai + Bx + 2Bi$
 $1 = (A+B)x + (-2A+2B)i$
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 $\frac{1}{x^2+4} = \frac{\frac{i}{4}}{x+2i} - \frac{\frac{i}{4}}{x-2i}$
 $\int \frac{1}{x^2+4} dx = \frac{i}{4} \ln|x+2i| - \frac{i}{4} \ln|x-2i| + C$

9. $\int \frac{1}{x^2+1} dx$
 $\frac{1}{x^2+1} = \frac{1}{(x-i)(x+i)}$
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10. $\int \frac{1}{x^2+1} dx$
 $\frac{1}{x^2+1} = \frac{1}{(x-i)(x+i)}$
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11. $\int \frac{1}{x^2+1} dx$
 $\frac{1}{x^2+1} = \frac{1}{(x-i)(x+i)}$
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 $\int \frac{1}{x^2+1} dx = \frac{-i}{2} \ln|x-i| + \frac{i}{2} \ln|x+i| + C$

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Table of Contents Math Models B E2020 Answers

1. Understanding the eBook Math Models B E2020 Answers
 - The Rise of Digital Reading Math Models B E2020 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Math Models B E2020 Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Math Models B E2020 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math Models B E2020 Answers
 - Personalized Recommendations
 - Math Models B E2020 Answers User Reviews and Ratings
 - Math Models B E2020 Answers and Bestseller Lists

5. Accessing Math Models B E2020 Answers Free and Paid eBooks
 - Math Models B E2020 Answers Public Domain eBooks
 - Math Models B E2020 Answers eBook Subscription Services
 - Math Models B E2020 Answers Budget-Friendly Options
6. Navigating Math Models B E2020 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Math Models B E2020 Answers Compatibility with Devices
 - Math Models B E2020 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math Models B E2020 Answers
 - Highlighting and Note-Taking Math Models B E2020 Answers
 - Interactive Elements Math Models B E2020 Answers
8. Staying Engaged with Math Models B E2020 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math Models B E2020 Answers
9. Balancing eBooks and Physical Books Math Models B E2020 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math Models B E2020 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Math Models B E2020 Answers
 - Setting Reading Goals Math Models B E2020 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Math Models B E2020 Answers
 - Fact-Checking eBook Content of Math Models B E2020 Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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