

Exercise 1: Indefinite Integrals

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

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

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. $\int \frac{1}{x^2+9} dx$

$= \int \frac{1}{x^2+3^2} dx$
 $= \frac{1}{3} \arctan\left(\frac{x}{3}\right) + C$

6. $\int \frac{1}{x^2+16} dx$

$\frac{1}{x^2+16} = \frac{1}{(x+4i)(x-4i)}$
 $\frac{1}{(x+4i)(x-4i)} = \frac{A}{x+4i} + \frac{B}{x-4i}$
 $1 = A(x-4i) + B(x+4i)$
 $1 = Ax - 4Ai + Bx + 4Bi$
 $1 = (A+B)x + (-4A+4B)i$
 $A+B = 0$
 $-4A+4B = -i$
 $A = \frac{i}{8}$
 $B = -\frac{i}{8}$
 $\frac{1}{x^2+16} = \frac{\frac{i}{8}}{x+4i} - \frac{\frac{i}{8}}{x-4i}$
 $\int \frac{1}{x^2+16} dx = \frac{i}{8} \ln|x+4i| - \frac{i}{8} \ln|x-4i| + C$

7. $\int \frac{1}{x^2+25} dx$

$\frac{1}{x^2+25} = \frac{1}{(x+5i)(x-5i)}$
 $\frac{1}{(x+5i)(x-5i)} = \frac{A}{x+5i} + \frac{B}{x-5i}$
 $1 = A(x-5i) + B(x+5i)$
 $1 = Ax - 5Ai + Bx + 5Bi$
 $1 = (A+B)x + (-5A+5B)i$
 $A+B = 0$
 $-5A+5B = -i$
 $A = \frac{i}{10}$
 $B = -\frac{i}{10}$
 $\frac{1}{x^2+25} = \frac{\frac{i}{10}}{x+5i} - \frac{\frac{i}{10}}{x-5i}$
 $\int \frac{1}{x^2+25} dx = \frac{i}{10} \ln|x+5i| - \frac{i}{10} \ln|x-5i| + C$

8. $\int \frac{1}{x^2+36} dx$

$\frac{1}{x^2+36} = \frac{1}{(x+6i)(x-6i)}$
 $\frac{1}{(x+6i)(x-6i)} = \frac{A}{x+6i} + \frac{B}{x-6i}$
 $1 = A(x-6i) + B(x+6i)$
 $1 = Ax - 6Ai + Bx + 6Bi$
 $1 = (A+B)x + (-6A+6B)i$
 $A+B = 0$
 $-6A+6B = -i$
 $A = \frac{i}{12}$
 $B = -\frac{i}{12}$
 $\frac{1}{x^2+36} = \frac{\frac{i}{12}}{x+6i} - \frac{\frac{i}{12}}{x-6i}$
 $\int \frac{1}{x^2+36} dx = \frac{i}{12} \ln|x+6i| - \frac{i}{12} \ln|x-6i| + C$

9. $\int \frac{1}{x^2+49} dx$

$= \int \frac{1}{x^2+7^2} dx$
 $= \frac{1}{7} \arctan\left(\frac{x}{7}\right) + C$

10. $\int \frac{1}{x^2+100} dx$

$\frac{1}{x^2+100} = \frac{1}{(x+10i)(x-10i)}$
 $\frac{1}{(x+10i)(x-10i)} = \frac{A}{x+10i} + \frac{B}{x-10i}$
 $1 = A(x-10i) + B(x+10i)$
 $1 = Ax - 10Ai + Bx + 10Bi$
 $1 = (A+B)x + (-10A+10B)i$
 $A+B = 0$
 $-10A+10B = -i$
 $A = \frac{i}{20}$
 $B = -\frac{i}{20}$
 $\frac{1}{x^2+100} = \frac{\frac{i}{20}}{x+10i} - \frac{\frac{i}{20}}{x-10i}$
 $\int \frac{1}{x^2+100} dx = \frac{i}{20} \ln|x+10i| - \frac{i}{20} \ln|x-10i| + C$

11. $\int \frac{1}{x^2+64} dx$

$\frac{1}{x^2+64} = \frac{1}{(x+8i)(x-8i)}$
 $\frac{1}{(x+8i)(x-8i)} = \frac{A}{x+8i} + \frac{B}{x-8i}$
 $1 = A(x-8i) + B(x+8i)$
 $1 = Ax - 8Ai + Bx + 8Bi$
 $1 = (A+B)x + (-8A+8B)i$
 $A+B = 0$
 $-8A+8B = -i$
 $A = \frac{i}{16}$
 $B = -\frac{i}{16}$
 $\frac{1}{x^2+64} = \frac{\frac{i}{16}}{x+8i} - \frac{\frac{i}{16}}{x-8i}$
 $\int \frac{1}{x^2+64} dx = \frac{i}{16} \ln|x+8i| - \frac{i}{16} \ln|x-8i| + C$

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Table of Contents E2020 Math Models Answers

1. Understanding the eBook E2020 Math Models Answers
 - The Rise of Digital Reading E2020 Math Models Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying E2020 Math Models 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 E2020 Math Models Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from E2020 Math Models Answers
 - Personalized Recommendations
 - E2020 Math Models Answers User Reviews and Ratings

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