

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

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

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

$\frac{1}{x^2+1} = \frac{1}{(x-i)(x+i)}$
 $\frac{1}{(x-i)(x+i)} = \frac{A}{x-i} + \frac{B}{x+i}$
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7. $\int \frac{1}{x^2-4} dx$

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

8. $\int \frac{1}{x^2+4} dx$

$\frac{1}{x^2+4} = \frac{1}{(x+2i)(x-2i)}$
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11. $\int \frac{1}{x^2+1} dx$

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Julia Schneider



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