

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

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

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

$= \arctan(x) + C$

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

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

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

$\frac{1}{x^2+9} = \frac{1}{(x+3i)(x-3i)}$
 $\frac{1}{(x+3i)(x-3i)} = \frac{A}{x+3i} + \frac{B}{x-3i}$
 $1 = A(x-3i) + B(x+3i)$
 $1 = Ax - 3Ai + Bx + 3Bi$
 $1 = (A+B)x + (-3A+3B)i$
 $A+B = 0$
 $-3A+3B = -i$
 $A = \frac{i}{6}$
 $B = -\frac{i}{6}$
 $\frac{1}{x^2+9} = \frac{\frac{i}{6}}{x+3i} - \frac{\frac{i}{6}}{x-3i}$
 $\int \frac{1}{x^2+9} dx = \frac{i}{6} \ln|x+3i| - \frac{i}{6} \ln|x-3i| + C$

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J Rink



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