

**Calculus II (Maths 201–NYB)**

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|---|--|--|
| 1. $\int \frac{dx}{\sqrt[3]{5-2x}}$               | 2. $\int x^3 e^{3x^4} dx$                        | 3. $\int x^3 e^{3x} dx$                          |
| 4. $\int \arctan x dx$                            | 5. $\int \tan(x+3) dx$                           | 6. $\int \frac{\sqrt{1+\sqrt{x}}}{\sqrt{x}} dx$  |
| 7. $\int \frac{x^2+2}{x\sqrt{x^2-1}} dx$          | 8. $\int \frac{dx}{x\sqrt{\ln x}}$               | 9. $\int 3x \cos(4x) dx$                         |
| 10. $\int \frac{(x+1) dx}{\sqrt{x^2+2x+3}}$       | 11. $\int e^{3x} \sin(2x) dx$                    | 12. $\int \frac{1}{x^2} \sqrt{1+\frac{1}{x}} dx$ |
| 13. $\int \frac{x + \arcsin(x)}{\sqrt{1-x^2}} dx$ | 14. $\int \frac{\sin x + \cos x + 1}{\sin x} dx$ | 15. $\int (\ln(x))^2 dx$                         |

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