

ATP Education UNIT TEST
MATHEMATICS (XII TH)
TEST PAPER-Integration

Q1. Find antiderivative (or integral) functions by the method of inspection in $\sin 2x - 4e^{3x}$

Q2. Evaluate integrals: $\int \frac{x^3 + 5x^2 - 4}{x^2} dx$

Q3. Evaluate integrals: $\int (2x - 3 \cos x + e^x) dx$

Q4. Evaluate integrals: $\int \frac{\sec^2 x}{\cos e^{2x}} dx$

Q5. Integrate the functions in $\sin x \sin(\cos x)$

Q6. Integrate the functions in $\frac{e^{2x} - 1}{e^{2x} + 1}$

Q7. Integrate the functions in $\frac{2 \cos x - 3 \sin x}{6 \cos x + 4 \sin x}$

Q8. Integrate the functions in $\frac{(x+1)(x + \log x)^2}{x}$

Q9. Integrate the functions in $\frac{\sqrt{\tan x}}{\sin x \cos x}$

Q10. Find the integrals: $\frac{\cos x}{1 + \cos x}$

Q11. Find the integrals: $\frac{\cos 2x + 2 \sin^2 x}{\cos^2 x}$

Q12. Find the integrals: $\frac{1}{\cos(x-a) \cos(x-b)}$

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