

Date: _____
Start: _____
End: _____
Grader: _____

Math 31
Integral Gateway Test

Name: _____
ID #: _____
Section: _____
Instructor: _____

Find each of the indicated integrals. You need 6 out of 7 correct to pass (no partial credit). *Be careful when writing answers, since the graders have firm instructions to mark off for all errors, including missing parentheses! No calculators allowed.*

Time Limit: 20 minutes.

- $\int te^{0.5t} dt$

- $\int (y^4 + 17y^{-4}) dy$

- $\int t\sqrt{\frac{t^2+1}{5}} dt$

THIS TEST IS CONTINUED ON THE BACK

- $\int \frac{e^x}{(2 + e^x)^2} dx$

- $\int \cos(1 - 3r) dr$

- $\int \frac{(\ln p)^3}{p} dp$

- $\int_1^2 \frac{1}{5x - 1} dx$

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- $\int_0^3 (-t^2 + 4t + 1) dt$

- $\int te^{0.5t} dt$

- $\int_0^1 \frac{z^3}{\sqrt{9z^4 + 16}} dz$

THIS TEST IS CONTINUED ON THE BACK

- $\int \cos(1 - 3r) dr$

- $\int \frac{e^z}{\sqrt{15 + e^z}} dz$

- $\int \frac{7}{x \ln x} dx$

- $\int \frac{e^x}{1 + e^x} dx$

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- $\int (\cos(6y) - \cos(-6y)) dy$

- $\int_{-1}^8 \sqrt{q+1} dq$

- $\int \alpha \cos(5\alpha) d\alpha$

THIS TEST IS CONTINUED ON THE BACK

- $\int \frac{e^x}{(2 + e^x)^2} dx$

- $\int_1^e \frac{(\ln x)^4}{4x} dx$

- $\int \frac{t^2}{t^3 - 9} dt$

- $\int_0^1 (z^4 + 2z - 3) dz$

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- $\int_0^2 (x^2 + 4x - 5) dx$

- $\int (\cos \theta)(\sin \theta)^3 d\theta$

- $\int \sqrt{4t + 1} dt$

THIS TEST IS CONTINUED ON THE BACK

- $\int t \cos(t/2) dt$

- $\int \frac{e^z}{\sqrt{15 + e^z}} dz$

- $\int \frac{e^q + 2e^{2q} + 3e^{3q} + 4e^{4q}}{e^q + e^{2q} + e^{3q} + e^{4q}} dq$

- $\int \frac{1}{s(\ln s)^4} ds$

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- $\int_0^1 (x^4 - 3x^2 + 2) dx$

- $\int x \sin(x^2 + 91) dx$

- $\int_0^1 \frac{z^3}{\sqrt{9z^4 + 16}} dz$

THIS TEST IS CONTINUED ON THE BACK

- $\int \frac{e^{4x} + 1}{e^{2x}} dx$

- $\int 3t \cos(3t) dt$

- $\int \frac{(\ln p)^3}{p} dp$

- $\int \frac{1 - 3t^2}{t - t^3} dt$