Date:	 Math 31	Name:	
Start:	 Integral Gateway Test	ID #:	
End:		Section:	
Grader:		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.

•
$$\int \left(5x^3 + 6x - 5\right) \, dx$$

•
$$\int (\cos 7z)(1+\sin 7z) dz$$

•
$$\int z e^{-5z} dz$$

THIS TEST IS CONTINUED ON THE BACK

•
$$\int \frac{e^{(1/y^6)}}{y^7} dy$$

•
$$\int \frac{(1+3\sqrt{x})^4}{\sqrt{x}} \, dx$$

•
$$\int \frac{5+2\ln t}{t} dt$$

•
$$\int \frac{5t}{4-3t^2} dt$$