

Corrections for the Solutions

#12: The answer should be $\frac{9}{2}\ln|x-1| - 15\ln|x-2| - \frac{21}{2}\ln|x-3| + C$

#15: The answer should be $\sum_{n=0}^{\infty} (-1)^n \frac{x^{4n+1}}{(4n+1) \cdot (2n)!}$

#18: The answer should be $\sin(x) - \frac{1}{3}\sin^3(x) + C$

#20: The answer should be $x(\ln x)^2 - 2x\ln x + 2x + C$

#32: The answer should be $2\ln|x-3| - \ln|x+1| + C$

#37: The answer should be $5/6\sin^2(3x) + C$

#42: The answer should be $x^2/22x + 3\ln|1+x| - 1/(1+x) + C$

#51: The answer should be $2e^2 + 2$

#54: The question should read $x^3 + x$ not $+3$

#62: The question should read $2xe^{(x+1)^2} + 2e^{(x+1)^2}$

Also, please note that # 57, 87, and 84 are more complicated than you can expect on the technique test.