Exponential and Logarithmic Integration - Key

In problems 1-12, find the indefinite integral

1. $e^{7x-1} + C$	2. $\frac{1}{4}e^{4x+3} + C$
3. $\frac{1}{4}e^{6x^2+2} + C$	4. $e^{x^2-5x+1} + C$
5. $\ln|x+5| + C$	6. $\frac{1}{7}\ln|7x-2| + C$
7. $\frac{5}{8}\ln|8x-1| + C$	8. $\frac{1}{2}\ln|x^2-8x+5| + C$
9. $\ln|e^x - 5| + C$	10. $\frac{1}{2}x^2 - x + 3\ln|x-2| + C$
11. $\frac{1}{2}x^2 - 5x - 13\ln|x-3| + C$	12. $e^x + 5x + 2e^{-x} + C$