Math 112 Solutions to Quiz 5

Evaluate the following indefinite integrals.

1. $\displaystyle\int \left(3\sqrt{x} - \frac{9}{2x^2} + 0.01x^4\right) dx = \int \left(3x^{1/2} - \frac{9}{2}x^{-2} + 0.01x^4\right) dx = 2x^{3/2} + \frac{9}{2}x^{-1} + 0.002x^5 + C$

2. $\displaystyle\int \frac{(x+1)^2}{x} dx = \int \frac{x^2 + 2x + 1}{x} dx = \int x + 2 + x^{-1} dx = \frac{1}{2}x^2 + 2x + \ln|x| + C$