Midterm 2: Math 30, 10/21/07

Evaluate the following indefinite integrals. Answers must be in terms of x. Don't forget the constant!

4 pts 1) $\int xe^x dx$

4 pts 2) $\int \cos^4(x)\sin^3(x)dx$

4 pts 3) $\int x\sqrt{x^2+4}dx$

4 pts 4) $\int \dfrac{1}{\sqrt{9-x^2}}dx$

4 pts 5) $\int \dfrac{x-1}{x^2+6x+8}dx$