Math 241: HW 9

Due on Tuesday, June 27

Summer '13

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Problem 1

Use $U$-sub to compute the following:

\[ \int (x^3 + 3x^2 + 3)^{10} (x^2 + 2x) \, dx \]
\[ \int \frac{\sin(\sqrt{x})}{2\sqrt{x}} \, dx \]
\[ \int \frac{x - 1}{(x + 1)^4} \, dx \]
\[ \int_{0}^{\sqrt{\pi/4}} \sec^2(x^2)2x \, dx \]