Calculus II - Spring 2014

Quiz #2, February 26, 2014

In the following problems you are required to show all your work and provide the necessary explanations everywhere to get full credit.

1. Determine whether the improper integral converges and, if so, evaluate it.

(a) $\int_1^\infty \sqrt{x}dx$

(b) $\int_{-\infty}^0 x^2 e^{x^3} dx$

(c) $\int_0^3 \frac{1}{\sqrt[3]{2-x}} dx$

(d) $\int_2^\infty \frac{1}{\sqrt[5]{x^4-x-1}} dx$