King Fahd University of Petroleum & Minerals Department of Mathematical Sciences Math 102 (121), Quiz # 5 (7.2 & 7.3)

Family name: Sr. #

Write your final answer in each box, and DON'T forget to attach your steps in separate papers.

Q1) Evaluate the following integrals

$$i. \int \sinh^3 x \cosh^2 x \, dx =$$

$$ii. \int \frac{\sqrt{x^2 - 4x}}{x - 2} dx = \boxed{$$

$$iii. \int \sin(2x)\cos^2 x \, dx =$$

$$iv \cdot \int \cot^4 x \, dx =$$

$$v. \int \sqrt{5+4x-x^2} \, dx = \boxed{$$

$$vi. \int \sqrt{x^2 + 1} \, dx = \boxed{}$$

PAGES 483-488 ARE VERY HELPFUL, PLEASE READ IT CAREFULLY.