King Fahd University of Petroleum & Minerals Department of Mathematics and Statistics (Semester 121) Math 201 Quiz # 6

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- 1. Evaluate $\int_0^4 \int_0^1 \int_{2y}^2 \frac{\cos(x^2)}{\sqrt{z}} dx dy dz$.
- 2. Using triple integrals in spherical coordinates, derive the formula ($v = \pi a^2 h/3$) for the volume of a right circular cone whose base radius is a and height h.