

**Ryerson University**  
**Lab 1 - MTH 240 - Winter 2014- Week Jan 13-17**

1. Problem 19 Section 7.1 Evaluate the integral  $\int z^3 e^z dz$
2. Problem 27 Section 7.1 Evaluate the integral  $\int_1^3 r^3 \ln r dr$
3. Problem 31 Section 7.1 Evaluate the integral  $\int_0^{1/2} \cos^{-1} x dx$
4. Problem 3 Section 7.2 Evaluate the integral  $\int_0^{\pi/2} \sin^7 \theta \cos^5 \theta d\theta$
5. Problem 31 Section 7.2 Evaluate the integral  $\int \tan^5 x dx$
6. Problem 33 Section 7.2 Evaluate the integral  $\int x \sec x \tan x dx$

**Quiz 1:** The quiz will cover Sections 7.1 & 7.2