## Homework 14

1. Section 7.3: Problems 1, 15, 21, 37, 45, 47, 53, 57.
2. Section 7.4: Problems 3, 5, 7, 8, 9, 10, 23(a), 24.
3. Section 8.2: Problems 5, 11, 15, 23, 25, 27, 29, 33, 35, 43, 45, 51, 63, 71, 75, 76. Hints:
$\int e^{a x} \cos (b x) d x$ or $\int e^{a x} \sin (b x) d x$ : integration by part twice.
Computations involving antiderivative of $\tan ^{2} x$ : $\operatorname{try} \tan ^{2} x=\sec ^{2} x-1$ $\int f(x) \ln x d x:$ try $y=\ln x, x=e^{y}$ and proceed.
