

# 1 Math342 - Spring 2018/2019

Name:

## Quiz 1

Including Fredholm integral equations

### 1.0.1 Question

Solve the given equation

$$y(x) = \sin^2 x + \lambda \int_0^{\pi} (\sin t + \cos t)y(t)dt$$

with the help of

- direct computation (separable kernel) method
- successive approximations method
- successive substitutions method.

Is there any contradiction?