# Homework 10 (maybe)

November 14, 2020

## 1 Problem 1

Find the answer for:
$\int_{x_0}^{x_2} P(x)dx = \int_{x0}^{x2} \frac{(x-x_1)(x-x2)}{(x_0-x_1)(x_0-x_2)} f(x_0)dx +$

$\int_{x0}^{x2} \frac{(x-x_0)(x-x2)}{(x_1-x_0)(x_1-x_2)} f(x_1)dx +$

$\int_{x0}^{x2} \frac{(x-x_0)(x-x1)}{(x_2-x_0)(x_2-x_1)} f(x_2)dx.$

## 2 Problem 2

Find $\int_0^{\pi} sin(x)dx$ by dividing the interval into 18 subintervals.