

# Math 1497 — Calculus II Spring 2019 — Homework

## Week 2: Jan. 21-25, 2019

pg. 529-530, #11, 16, 17, 18, 23, 25, 31, 33 and 35.

$$(i) \quad \int_{-\pi/2}^{\pi/2} \sin^2 x \, dx$$

$$(ii) \quad \int_0^{\pi/3} \tan^2 x \, dx$$

$$(iii) \quad \int_0^{\pi/4} \tan^3 x \sec x \, dx$$

$$(iv) \quad \int_0^{\pi/4} \tan^2 x \sec^4 x \, dx$$

$$(v) \quad \int_{-\pi/2}^{\pi/2} \cos^3 x \, dx$$

$$(vi) \quad \int_0^{\pi} \sin^3 x \cos^2 x \, dx$$

**Due: Jan. 25, 2019**

## Week 3: Jan. 28-Feb. 1, 2019

pg. 537-538, #7, 13, 17, 19, 21, 25, 27, 31, 39, 47, 48, 50, 52 and 53.

pg. 549, #13, 18, 19, 29, 33, 35, 42, 43, and 50.

**Due: Feb. 1, 2019**