

Same instructions as Mission 1. Thanks!

Problem 65 Renteln Exercise 5.3 page 149. (homology of S_2)

Problem 66 Renteln Exercise 5.7 page 153. (Euler characteristic of torus)

Problem 67 Renteln Exercise 5.8 page 154. (homology of wedge sum of two tetrahedrons)

Problem 68 Renteln Exercise 5.9 page 154-155. (Euler characteristic of genus g surface)

Problem 69 Renteln Exercise 6.3 page 166. (verify Stokes' theorem)

Problem 70 Renteln Exercise 6.4 page 166. (integral of exact or closed)

Problem 71 Renteln Exercise 6.5 page 166. (connection between d^2 and ∂^2)

Problem 72 Exercise 6.8 and 6.9 on page 171-172 of Renteln (a natural homomorphism powered by IBP on forms)

Bonus 9: Renteln Exercises 8.37, 8.38, 8.39 pages 227-229. (Killing Fields)