

HW4, due Wednesday, September 30

Math 404, Spring 2014

Patrick Brosnan, Instructor

Exercises from the Hoffman-Kunze: (30 points each) 2.4: 1, 2, 3.

1 (10 points). Let \mathbb{F}_2 denote the field with two elements, and let $V = \mathbb{F}_2^4$. How many subspaces of W of V are there with $\dim W = 2$?