

MATH 54 Homework 7

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Due Wednesday, July 19.

- Hill 3.1: 47, 48, 49, 50.
- Hill 3.2: 25, 31.
- Find an orthogonal basis for P_3 with respect to the inner product

$$\langle f, g \rangle = \int_{-1}^1 f(x)\overline{g(x)} dx.$$

- Hill 4.3: 19, 21, 22.