

MATE 3032 set 14: sections 12.4, 12.5

Practice, not to hand in.

Section 12.4: exercises 1–13 of text. In addition:

134. Exercise 14 p.821.

135. Find two unit vectors orthogonal to both $\mathbf{i} - \mathbf{j}$ and $\mathbf{j} + \mathbf{k}$.

136. Exercise 32 p.822.

137. Exercises 35, 49 p.822.

Section 12.5: 1–5 of text. In addition:

138–147. Exercises 8, 14, 21, 44, 46, 48, 54, 72, 74, 78 pp.831–833. For the last three problems, use the method shown in examples 8 and 9 of lecture (normal line in parametric equations).