

MATH 221 L07

Fall, 2007

FINAL REVIEW PROBLEMS

Problems from the text.

Exercises 1.2: #3, 5, 7, 8, 11.

Exercises 1.3: #2.

Exercises 2.1: #6, 15, 17, 18.

Exercises 2.2: #8, 10, 12, 16, 18, 25, 26.

Exercises 2.3: #2, 3, 4, 5, 6, 10, 21, 31.

Exercises 2.4: #2, 6.

Exercises 3.1: #1, 11.

Exercises 3.2: #1, 3, 5, 8, 10.

Exercises 3.3: #1, 6, 8.

Exercises A (appendix) # 1 - 3, 5, 18 - 20, 23.

Exercises 4.1. # 1 - 7, 22 - 24.

Exercises 4.2. # 1 - 5, 10, 11, 14 - 16, 20.

Exercises 4.3. # 2, 4, 5.

Exercises 4.4. # 1 - 3.

Exercises 2.5. # 1, 3. For a linear transformation $T = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$, specify conditions so that T preserves area, T preserves orientation, T preserves dot product, T leaves a vector invariant.