

# V63.0140-3: Linear Algebra. Homework 9

due Thurs Nov 13 at start of lecture

A couple more questions, but some are easy so shouldn't take longer.

## 5.1:

- 2.
- 3.
- 7.
- 14.
18. [Hint: recognize the special form].
22. (remember only say 'True' if it's always true).

## 5.2:

- 1.
- 2.
- 8.
10. (remember to expand and simplify by gathering into powers of  $\lambda$ , like in the examples).
- 19.

## 5.3:

- 1.
4. [Hint: your answer will involve numbers to the power  $k$ ].
- 8.
- 10.
- 21.
- 24.

## 5.4:

- 1.
- 3.