Problem set 5

This problem set is due on February 9.

1. §3.1, exercise 34

2. §3.2, exercise 6

3. §3.2, exercise 14

4. §3.2, exercise 18

5. §3.2, exercise 24

6. §3.2, exercise 30

7. §3.2, exercise 34

8. §3.2, exercise 44 (Hint: use that $\text{im}(A) = \mathbb{R}^n$)

9. §3.2, exercise 52

10. §3.3, exercise 10

11. §3.3, exercise 28

All exercises are from Bretscher's *Linear Algebra with Applications* (fourth ed.) unless otherwise noted.