

**Dartmouth College**  
Mathematics 23 - Assignment 16

1. Boyce and DiPrima Section 7.2: 16
2. Boyce and DiPrima Section 7.2: 17
3. Boyce and DiPrima Section 7.3: 3
4. Determine whether the members of each of the following sets of vectors are linearly independent or linearly dependent. If they are linearly dependent, find a linear relation among them.
  - (a)  $\{(1, 2, 3), (1, 2, 4), (3, 1, 5)\}$
  - (b)  $\{(1, 2, 3), (3, 1, 1), (7, 4, 5)\}$
5. Boyce and DiPrima Section 7.3: 6