School of Mathematics and Statistics
MAST30030
Applied Mathematical Modelling

Problem Sheet 5. Some answers

Question 1

i and v make sense

Question 2

By splitting into 3 terms and relabelling the dummy indices, each term is the same; so simplifies to

$$= 3A_{ijk}x_i x_j x_k$$

Question 4

i and iii are false; rest are true.

Question 6

  i. 3

  ii. 3

  iii. 3

  iv. 6