

MTH4108 PROBABILITY 1 2009
NUMERICAL SOLUTIONS

Q1(a) (i) $11/12$ (ii) $1/6$, (iii) $6/7$

Q3(b) $11/18$ (c) 2

Q6(a) $e^{-\lambda}$ (b) $(1 + \lambda)e^{-\lambda}$ (c) $1/(1 + \lambda)$ (d) not covered in 2009/10

Q7(d) $19/27$ (e) $8/27$ (f) $3/5$ (g) $n = 1$

Q8(e) $\mathbb{E}(A) = 5/2 = \mathbb{E}(B)$ (f) $\mathbb{E}(T) = 5$