

TMA4110 Calculus 3 Autumn 2010

Exercise set 6 – Week 40

Edwards & Penney, section 1.4

9,20,34,39,40

Edwards & Penney, section 1.5

 $17,\!22,\!32$

Exam problems



A-23 Each year, in the city of Patos, 30% of the married women are divorced, and 20% of the unmarried ones get married. At present, there are 8000 married women and 2000 unmarried women. Suppose that the total number of women remain constant. According to local laws, a woman can only marry or divorce once a year.

Show how the number of married and unmarried women after n years determine the number of married and unmarried women after (n+1) years. Use this to calculate how many married and unmarried women there are after 1, 2 and 3 years, respectively.

Multiple-choice questions

