



1 Shade the required region on each Venn diagram.



$$A' \cup B'$$



$$A' \cap B'$$

[2]

2 Factorise completely.

$$kp + 3k + mp + 3m$$

$$K(p+3) + m(p+3) = (k+m)(p+3)$$

Answer  $(k+m)(p+3)$  [2]

3 The first five terms of a sequence are shown below.

$$13 \quad 9 \quad 5 \quad 1 \quad -3$$

$$-4 \quad -4 \quad -4 \quad -4$$

Find the  $n$ th term of this sequence.

$$T(n) = -4n + c$$

$$T(1) = -4 + c = 13$$

$$c = 17$$

$$T(n) = -4n + 17$$

Answer  $-4n + 17$  [2]

# Igcse May June 2013 Paper 21

**Karen Morrison, Nick Hamshaw**



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