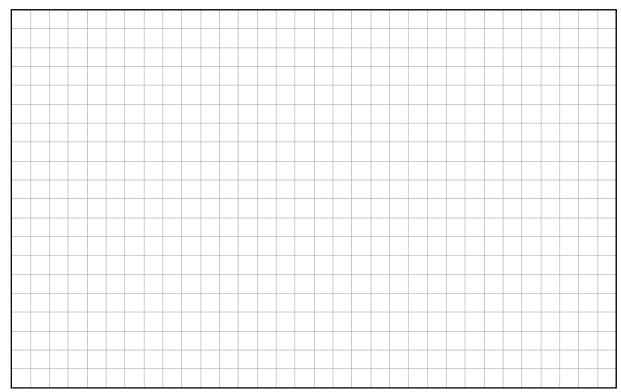
Question 3 (25 marks)

(a) Factorise fully: 3xy - 9x + 4y - 12.



(b) $g(x) = 3x \ln x - 9x + 4 \ln x - 12$. Using your answer to **part (a)** or otherwise, solve g(x) = 0.



(c) Evaluate g'(e) correct to 2 decimal places.

