10: [*In this question you may assume that if n is an integer and n^2 is even, then n is even.*]

Given that p and q are integers, use proof by contradiction to show that

$$p^2 - 4q + 2 \neq 0$$

(5)

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Question 10 continued

Question 10 continued

(Total for Question 10 is 5 marks)

TOTAL FOR PAPER IS 75 MARKS

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