10. **In this question you must show all stages of your working.**
Solutions relying on calculator technology are not acceptable.

Use proof by contradiction to show that for all angles x, where $90° < x < 180°$

$$\left| \frac{\cos 2x}{\cos x - \sin x} \right| < 1$$

(4)

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Question 10 continued

Question 10 continued

(Total for Question 10 is 4 marks)

TOTAL FOR PAPER IS 75 MARKS

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