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Quiz 2

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. §5.4#87 (5 marks)

Integrate the following indefinite integral:

$$\int \frac{e^{\sqrt{x}}}{\sqrt{x}} dx$$

$$= \int \frac{e^{u}}{\sqrt{x}} dx$$

Question 2. §5.7#13 (5 marks)

Integrate the following indefinite integral:

Let
$$u = e^{2x}$$
 (1)
$$= du = u'(x)dx$$

$$du = 2e^{2x}dx$$

$$du = 2e^{2x}dx$$

$$du = e^{2x}dx$$

$$du = \int \frac{1}{2^{2}+u^{2}}du$$

$$du = \int \frac{1}{2^{2}+u^{2}}du$$