



Name: _____

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Practice Test 3
(version A4)

Calculus II (Maths 201–NYB)

1. Evaluate:

(a) $\int \sqrt{1 + \sqrt{x}} dx$

(b) $\int \frac{x^2}{(3 + 4x - 4x^2)^{3/2}} dx$

(c) $\int \frac{2x - 1}{(3 + 4x - 4x^2)^{3/2}} dx$

2. Does the following series converge or diverge? $\sum_{n=0}^{\infty} (-1)^n \frac{n + 4^n}{n + 6^n}$