Calculus II

Quiz Questions

October 3, 2025

Please write your name on the top of the paper.

i) Evaluate:

$$\int_0^2 \frac{3x}{2} dx$$

- ii) Find the integral of g(x)2x 2 from -1 to 4.
- iii) Let:

$$h(x) = \begin{cases} -2 & \text{if} & x \le 0\\ \sqrt{16 - x^2} & \text{if } x \ge 0 \end{cases}$$

Find the integral of h(x) from -2 to 4.

iv) Evaluate:

$$\int_{-3}^{3} \sqrt{9 - x^2} + 6dx$$

v) Evaluate:

$$\int_{-3}^{3} \sqrt{9 - x^2} - 5dx$$

vi) Find the integral of l(x) = -3x - 2 from 0 to 5.