

Quiz 2 - No work = No marks (50 min)**Exercise 1: (5 points)**

Find the area of the region bounded by the curves: $y^2 = 2x + 1$ and $x + y = 1$

Exercise 2: (5 points)

Assume that f is an even, continuous function for which:

$$\int_{-2}^2 f(x)dx = 6 \text{ and } \int_0^4 f(x)dx = 10$$

Find the value of the integral: $\int_2^4 f(x)dx$

Exercise 3: (5 points)

Assume that g is a continuous function

$$\text{if } \int_0^2 g(x)dx = 6 \text{ then } \int_2^3 2g(2t - 4)dt = ???$$

Exercise 4: (5 points)

Find the value of the definite integral: $\int_0^{\frac{3}{2}} \sqrt{9 - 4x^2} dx$

The exercises are ordered from easiest to hardest