

Sols

MATH 122: QUIZ 8 RIEMANN SUMS

Name: \_\_\_\_\_

1. (10 points) Approximate the area under the following curve over the interval  $[-5, 3]$  using 4 right endpoint rectangles.

$$y = \frac{x^2}{2} + x + 2$$

$$\Delta x = \frac{b-a}{n} = \frac{3 - -5}{4} = \frac{8}{4} = 2$$

$$\Delta x (f(-3) + f(-1) + f(1) + f(3))$$

$$= 2 (3.5 + 1.5 + 3.5 + 9.5)$$

$$= \textcircled{36}$$