Student ID:

Student Name:

Serial Number: _____

MATH102, Section 1
Spring 2018, Term 172
Instructions: Show Your Work!

Quiz 2
Version A

1. (3 pts) Evaluate

$$\int_0^1 \frac{dx}{\left(1 + \sqrt{x}\right)^4}$$

2. (3 pts) If

$$\int_0^4 e^{(x-2)^4} dx = k,$$

find the value of

$$\int_0^4 x e^{(x-2)^4} dx$$

3. (4 pts) Sketch the region enclosed by $y = x^4$ and $y = 2 - |x|$ and find its area.