KFUPM Mathematics & Statistics

Term 162 MATH 102 Date: 5/3/2017 Duration: 25 minutes

Section:

Quiz#2

Name:

ID #:

Question One:

If
$$\int_{4}^{7} f(x)dx = 5$$
, then $\int_{1}^{4} \frac{f(3\sqrt{x} + 1)}{\sqrt{x}} dx =$

Question Two:

The area of the region lying between the curves $y=x^2$ and y=-x+2 and between the lines x=0 and x=2 is equal to

Question Three:

The value of $\int_{-2}^{2} (x^3 + 1) \sqrt{4 - x^2} \, dx$ is equal to

[Hint: One term of the integral may be interpreted as an area].

Question Four:

$$\int_4^{10} \frac{x}{x^2 - 4} \ dx =$$