

Name:

ID #:

Section:

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:

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