

9.3-9.4 Quiz CALCULATOR Practice

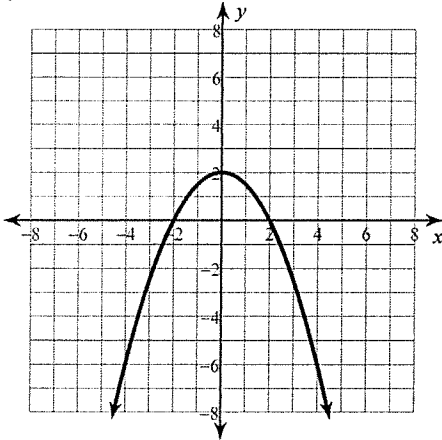
Date _____ Period _____

Using the FTC and your GDC, evaluate each definite integral to 3 decimal places. (1pt each)

1) $\int_0^3 \frac{1}{9+x^2} dx$

Shade the area bound by each function below and the x-axis. Then set up an integral and use your GDC to evaluate. Use what you know about areas to verify that your answer makes sense. (3 pts each)

2) $y = -0.5x^2 + 2$ from -2 to 2.

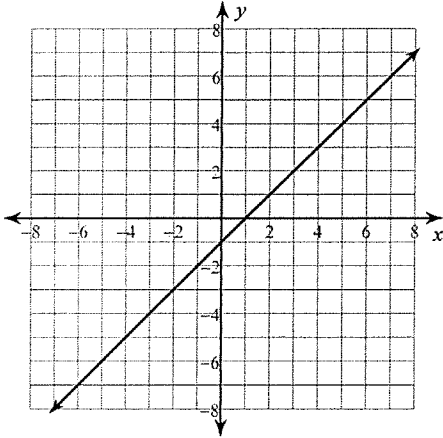


9.3-9.4 Quiz - NON CALC Practice

Date _____ Period _____

Using geometry and areas, evaluate the integral. 2 pts each

1) $\int_{-4}^3 g(x) dx$



Using properties of integrals, evaluate the following given $\int_{-2}^5 f(x) dx = 6$, $\int_1^5 f(x) dx = -3$,

$\int_{-2}^5 g(x) dx = 4$, and $\int_5^9 g(x) dx = -10$. Show work whenever possible. (2 pts each)

2) Find $\int_5^1 f(x) dx$

Evaluate each definite integral using the Fundamental Theorem of Calculus.

Give exact answers and you must do the integrals by hand. Show work! (5 pts each)

3) $\int_{-2}^2 (x^5 - 3x^3 + 2x + 4) dx$