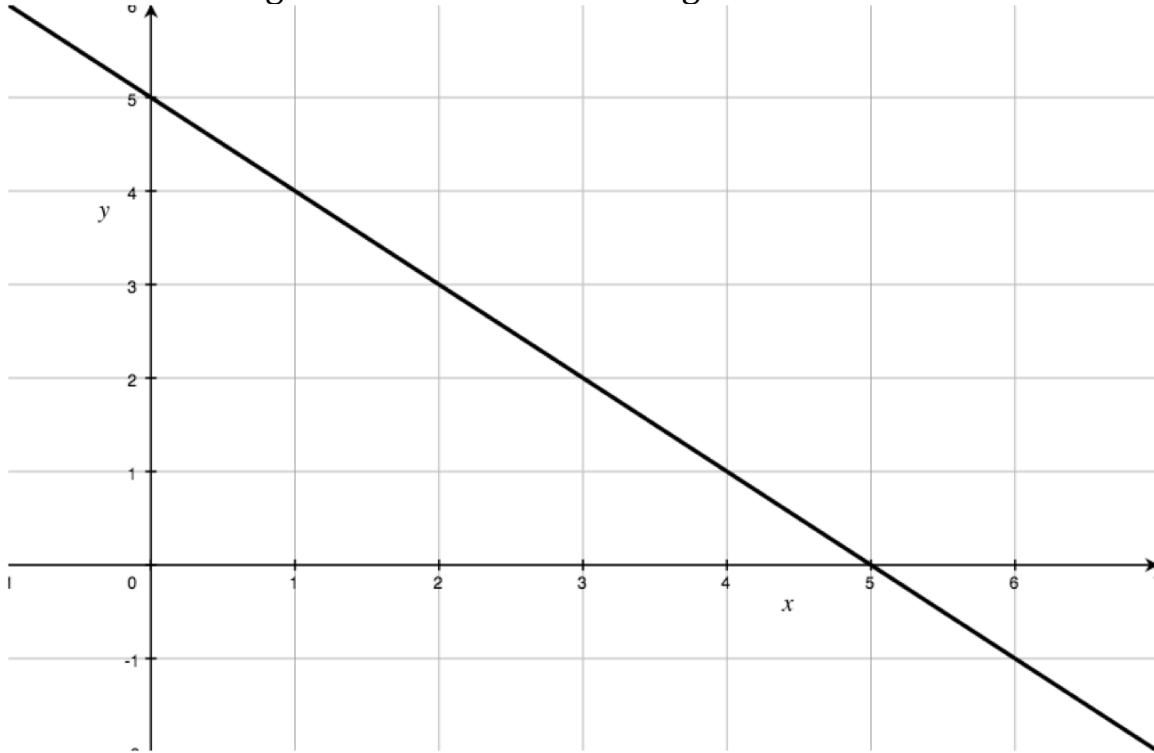


Precalc – Warm Up – 2/25/11

Name: _____ Period: _____

- 1) Estimate the area under the curve for the following function with two Riemann sums on the interval $0 \leq x \leq 6$. Use two right-hand sums one with 3 rectangles and one with 6 rectangles.



Which sum is more accurate? Why?

Precalc – Riemann Sums by Table and Equation – 2/25/11

Name: _____ Period: _____

Students will be able to calculate Riemann sums given a table or equation.

1) Consider the following table of $f(x)$

x	2	3	4	5	6
$f(x)$	4	9	16	25	36

Calculate the area under $f(x)$ using a right-hand Riemann sum with 4 rectangles for the interval $2 \leq x \leq 6$.

- 2) Consider the function $f(x) = x^2$. Calculate the area under $f(x)$ using a right-hand Riemann sum with 4 rectangles for the interval $2 \leq x \leq 6$.

Practice - For all of the following problems, find a right-hand Riemann sum on the interval $2 \leq x \leq 6$ using 4 rectangles.

1) $f(x) = x^3$

2) $f(x) = 2^x$

3)

x	2	3	4	5	6
$f(x)$	32	16	8	4	2

4)

x	2	3	4	5	6
$f(x)$	32	16	8	4	2

6)

x	2	3	4	5	6
$f(x)$	9	12	17	24	33

7) $f(x) = 3^{(x-2)} - 5$

Precalc – Exit Slip – 2/25/11

Name: _____

Period: _____

Consider the function $f(x) = 1.5x^2 - 7$. Calculate the area under $f(x)$ for the interval $0 \leq x \leq 4$ using a left-hand Riemann sum and 4 rectangles.