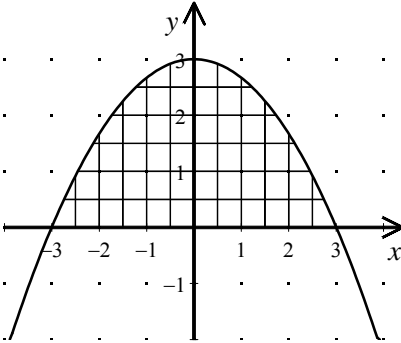


NAME: _____

1. The area under this curve has been subdivided into rectangles. Use the rectangles to approximate the area under the curve.



2. Graph the function $f(x) = 2x^2 + 1$. Use inscribed rectangles of width 0.25 to approximate the area under the curve from -1.5 to 1 .

3. Graph the function $f(x) = x^2 + 1$. Use inscribed rectangles of width 0.25 to approximate the area under the curve from -2 to 1 .

4. Graph the function $f(x) = -x^2 + 5$. Use the series $\sum_{n=1}^4 (0.5)f(a_n)$ and inscribed rectangles to approximate the area under the curve from -2 to 0 .

[A] 6.3 [B] 5.3 [C] 5.7 [D] 6.7

5. Graph the function $f(x) = -x^2 + 7$. Use the series $\sum_{n=1}^4 (0.5)f(a_n)$ and inscribed rectangles to approximate the area under the curve from -2 to 0 .

[A] 9.3 [B] 9.7 [C] 10.7 [D] 10.3

[1] 12 square units

[2] 4.7

[3] 5.4

[4] A

[5] D