

Riemann's Sum - TRAPEZOIDS Practice

Date _____ Period _____

For each problem, approximate the area under the curve over the given interval using 4 trapezoids.

1) $y = x^2 + 4$; $[-2, 2]$

2) $y = -x + 6$; $[-5, 3]$

3) $y = -\frac{x^2}{2} - x + 5$; $[-4, 0]$

4) $y = x^2 + 4$; $[-1, 3]$

5) $y = x + 6$; $[-1, 7]$

6) $y = \frac{x^2}{2} + x + 2$; $[-5, 3]$

7) $y = -\frac{x^2}{2} + 6$; $[-3, 1]$

8) $y = \frac{x}{2} + 5$; $[-2, 6]$

9) $y = -x^2 + 2x + 9$; $[-2, 2]$

10) $y = \frac{x}{2} + 5$; $[-7, 1]$

11) $y = -x + 4$; $[-4, 0]$

12) $y = x^2 + 2$; $[-3, 1]$

Answers to Riemann's Sum - TRAPEZOIDS Practice (ID: 1)

1) 22

5) 72

9) 30

2) 56

6) 36

10) 28

3) 17

7) 19

11) 24

4) 26

8) 48

12) 18