

**Approximating Area with rectangles**

Date \_\_\_\_\_ Period \_\_\_\_\_

**For each problem, approximate the area under the curve over the given interval using 4 left endpoint rectangles.**

1)  $y = -x + 3$ ;  $[-7, 1]$

**For each problem, approximate the area under the curve over the given interval using 4 midpoint rectangles.**

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

**For each problem, approximate the area under the curve over the given interval using 4 right endpoint rectangles.**

3)  $y = -x + 5$ ;  $[-1, 3]$

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

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