

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

56

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

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

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

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

14

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

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

40