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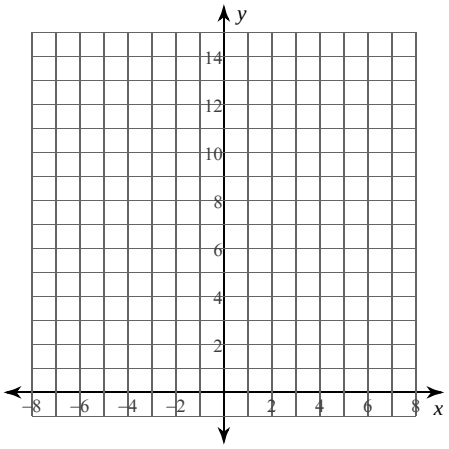
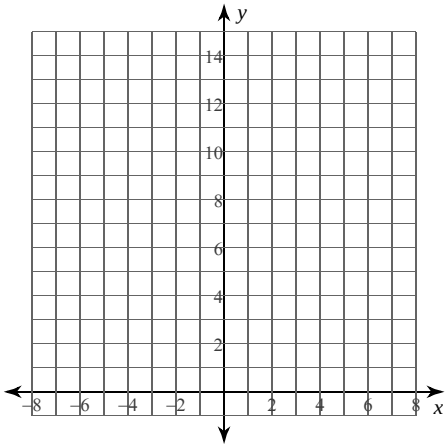
Calculus Practice: Riemann Sums 4b

For each problem, approximate the area under the curve over the given interval using 4 trapezoids. You may use the provided graph to sketch the curve and trapezoids.

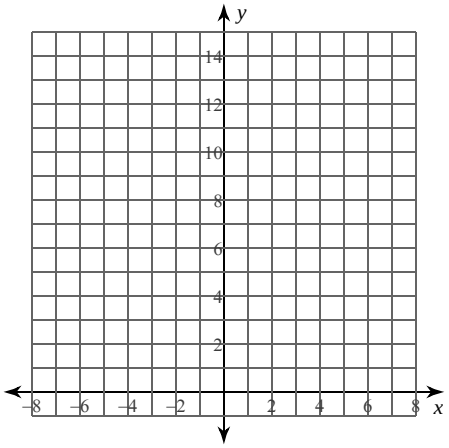
1) $y = \frac{x}{2} + 6;\ [0, 4]$



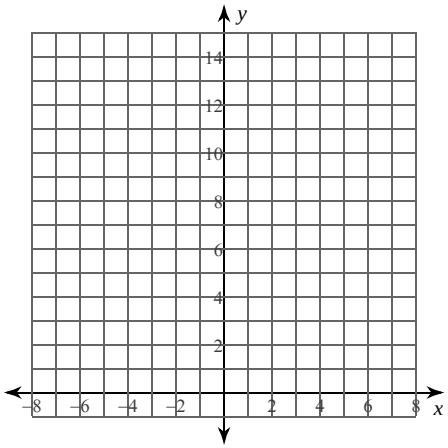
2) $y = x + 3;\ [1, 3]$



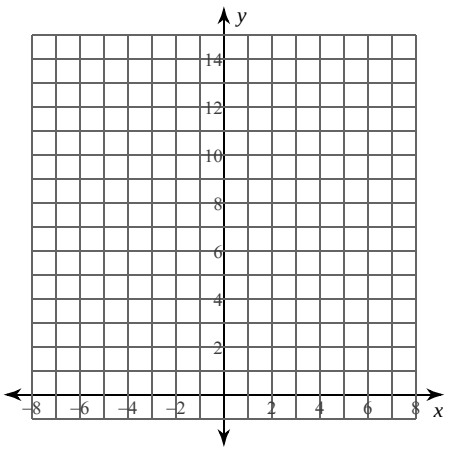
3) $y = -x + 3;\ [-4, 0]$



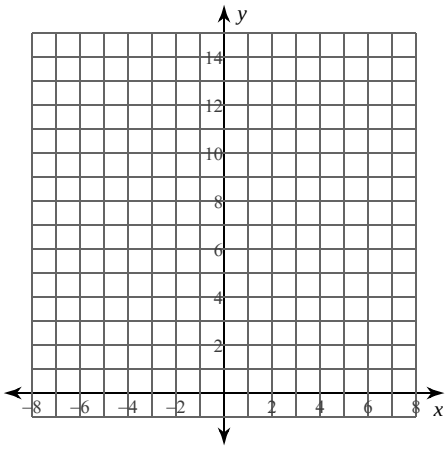
4) $y = -\frac{x}{2} + 4;\ [-4, -2]$



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



6) $y = -x^2 + 13;\ [-1, 1]$



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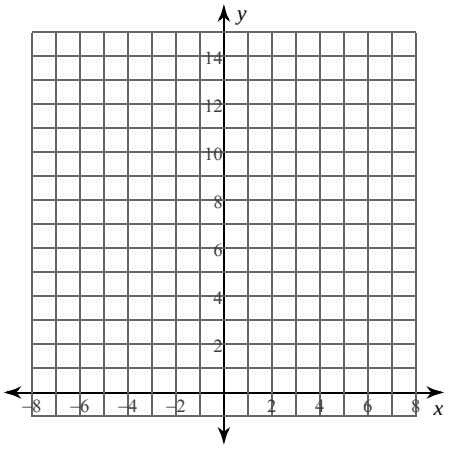
7) $y = -x^2 + 11;\ [0, 2]$



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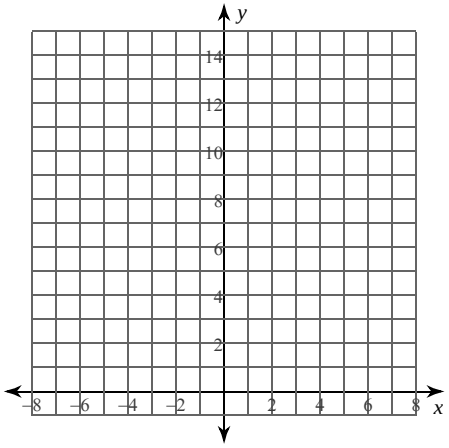

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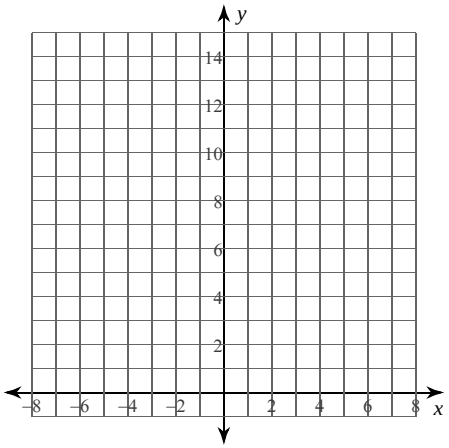

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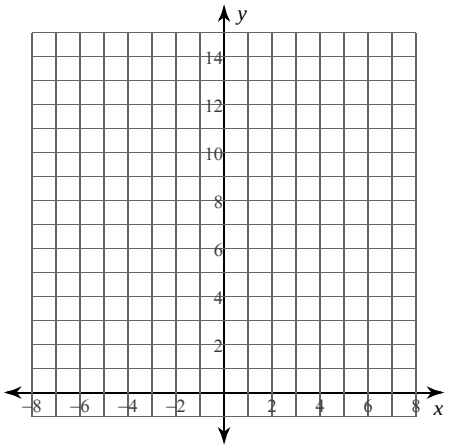

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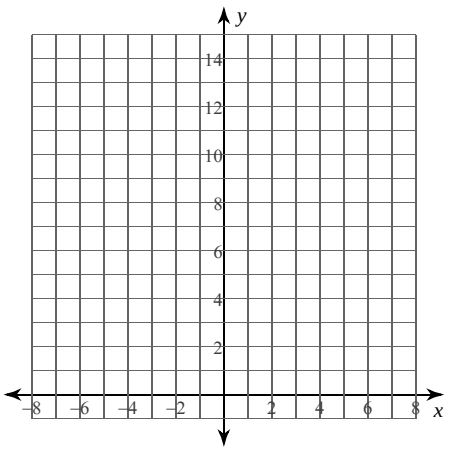

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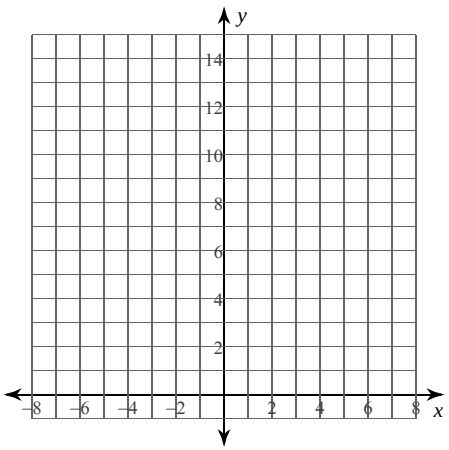

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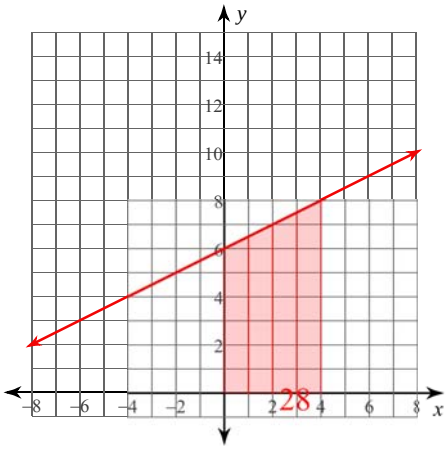

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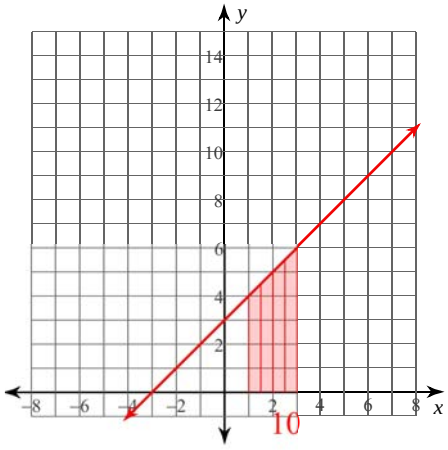

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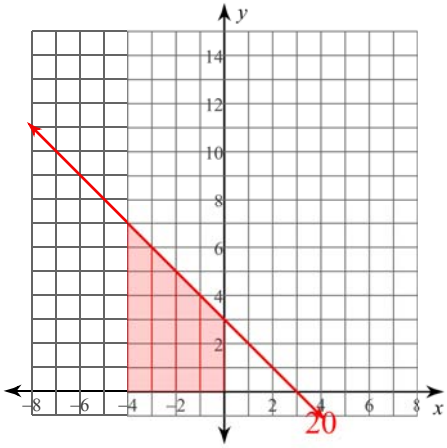

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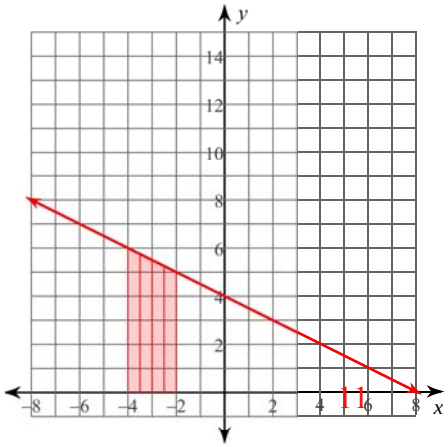

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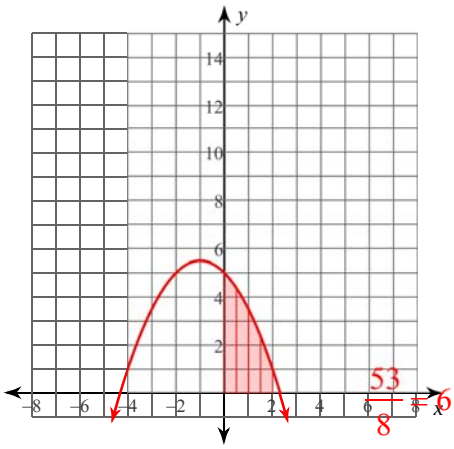

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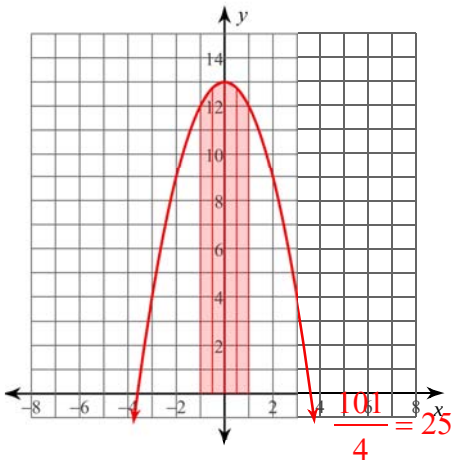

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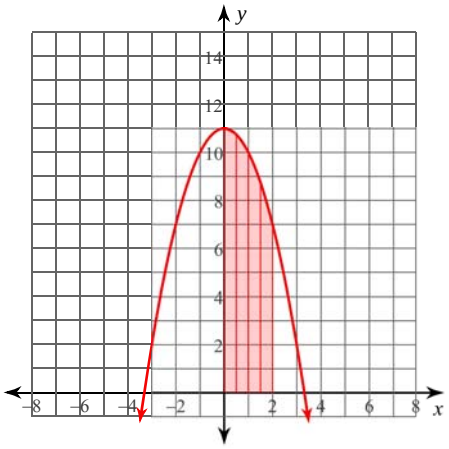
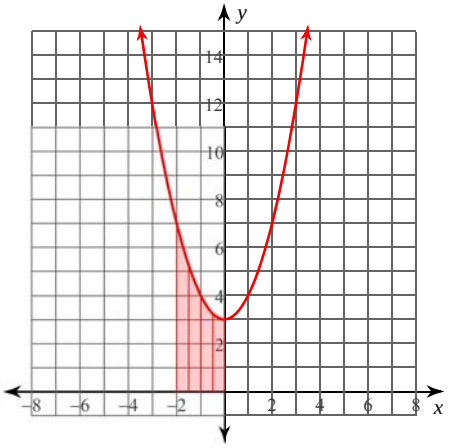


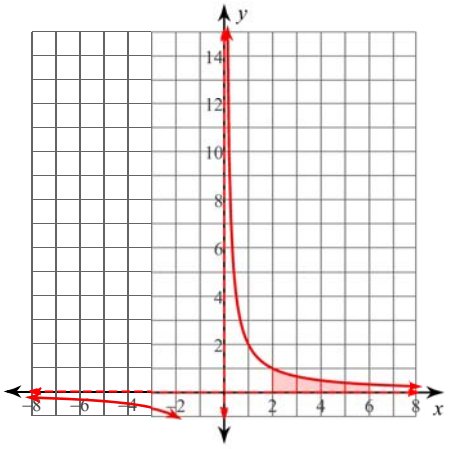
$\frac{77}{4} = 19.25$

8) $y = x^2 + 3;\ [-2, 0]$



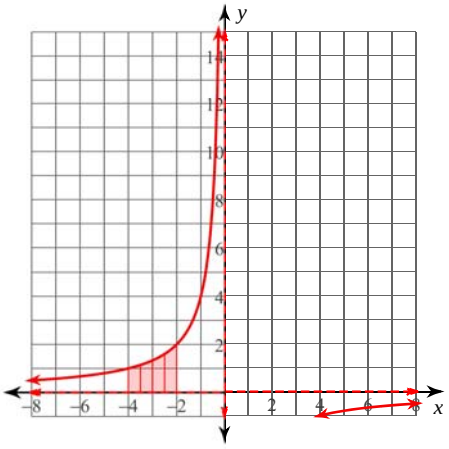
$\frac{35}{4} = 8.75$

9) $y = \frac{2}{x};\ [2, 6]$



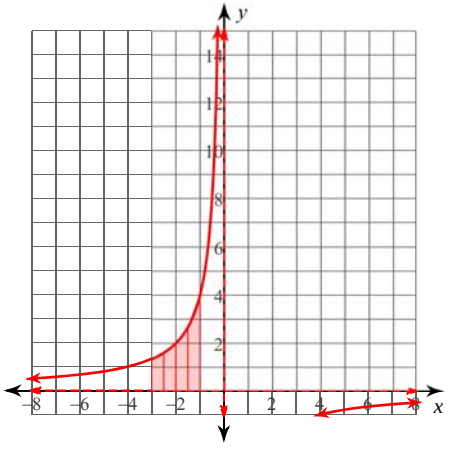
$\frac{67}{30} \approx 2.233$

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



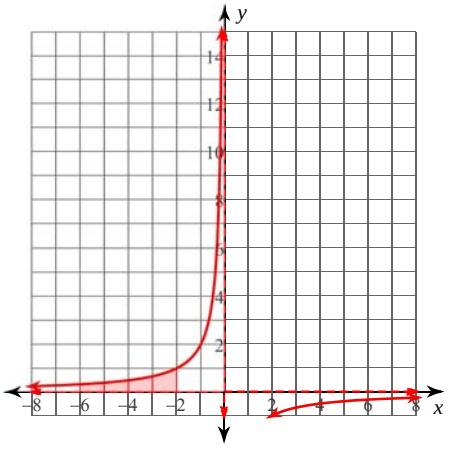
$\frac{1171}{420} \approx 2.788$

11) $y = -\frac{4}{x};\ [-3, -1]$



$\frac{67}{15} \approx 4.467$

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



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