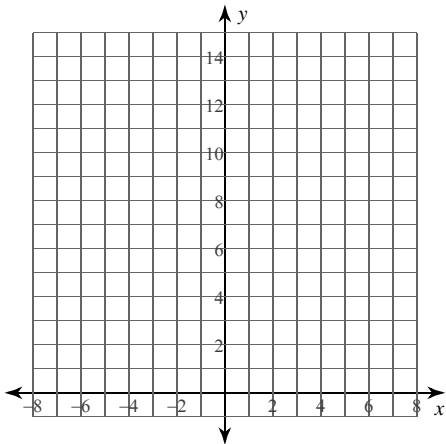


Calculus Practice: Riemann Sums 2a

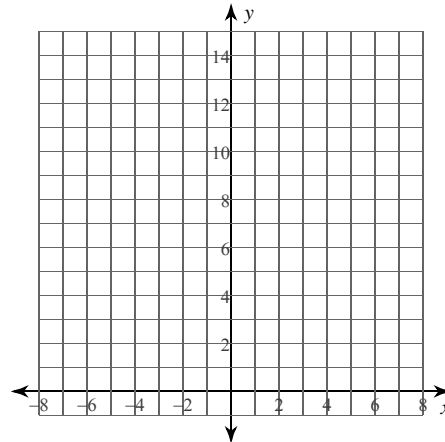
For each problem, approximate the area under the curve over the given interval using 4 right endpoint rectangles. You may use the provided graph to sketch the curve and rectangles.

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



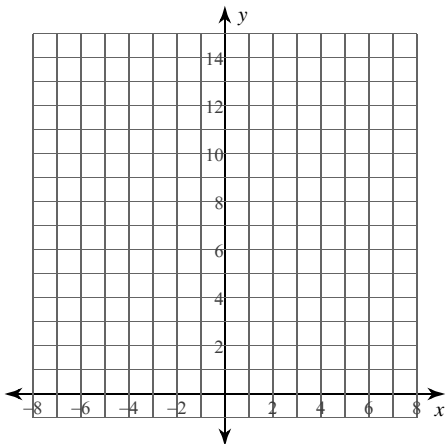
- A) $\frac{9}{2} = 4.5$
- B) 5
- C) $\frac{27}{2} = 13.5$
- D) 9

2) $y = -\frac{x}{2} + 4$; $[1, 5]$



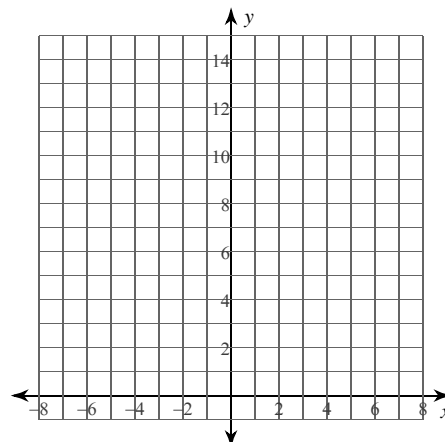
- A) 9
- B) 8
- C) $\frac{28}{3} \approx 9.333$
- D) 18

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



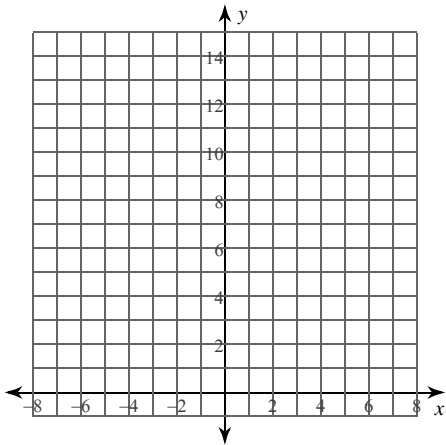
- A) $\frac{55}{4} = 13.75$
- B) $\frac{59}{4} = 14.75$
- C) $\frac{61}{4} = 15.25$
- D) $\frac{177}{4} = 44.25$

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



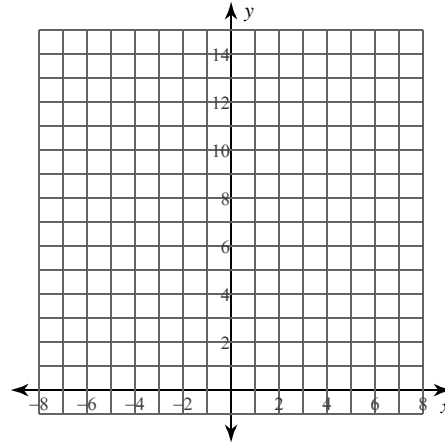
- A) 19
- B) 22
- C) 21
- D) $\frac{43}{2} = 21.5$

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



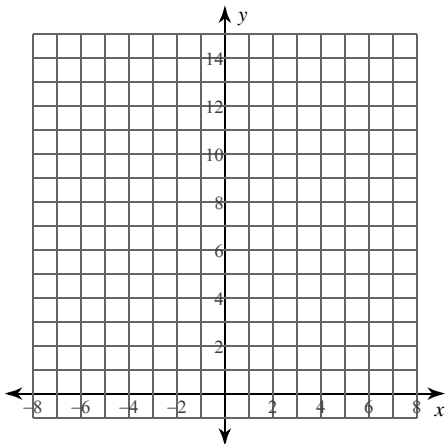
- A) $\frac{61}{4} = 15.25$ B) $\frac{57}{4} = 14.25$
 C) $\frac{59}{4} = 14.75$ D) $\frac{59}{2} = 29.5$

6) $y = \frac{5}{x}$; $[1, 3]$



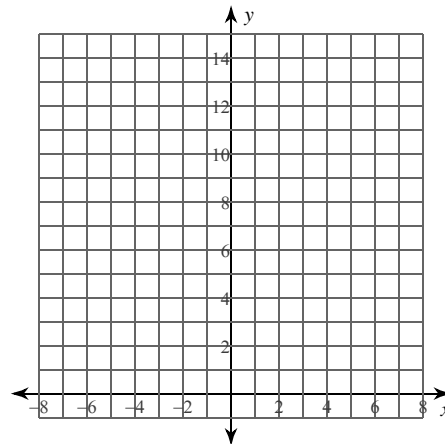
- A) $\frac{19}{4} = 4.75$ B) $\frac{11}{4} = 2.75$
 C) $\frac{53}{12} \approx 4.417$ D) $\frac{23}{4} = 5.75$

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



- A) $\frac{24}{5} = 4.8$ B) $\frac{19}{5} = 3.8$
 C) $\frac{14}{5} = 2.8$ D) $\frac{52}{15} \approx 3.467$

8) $y = -\frac{3}{x}$; $[-4, -2]$

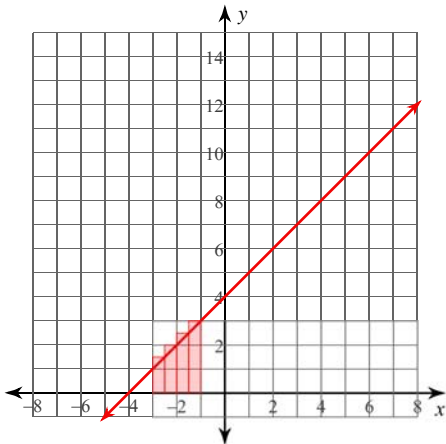


- A) $\frac{957}{140} \approx 6.836$
 B) $\frac{389}{140} \approx 2.779$
 C) $\frac{319}{70} \approx 4.557$
 D) $\frac{319}{140} \approx 2.279$

Calculus Practice: Riemann Sums 2a

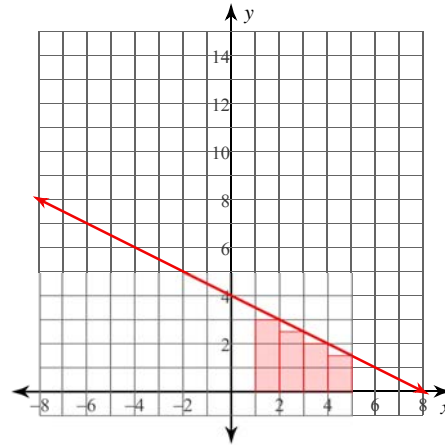
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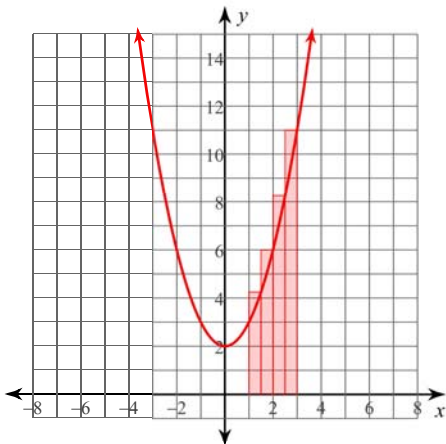
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- C) $\frac{27}{2} = 13.5$
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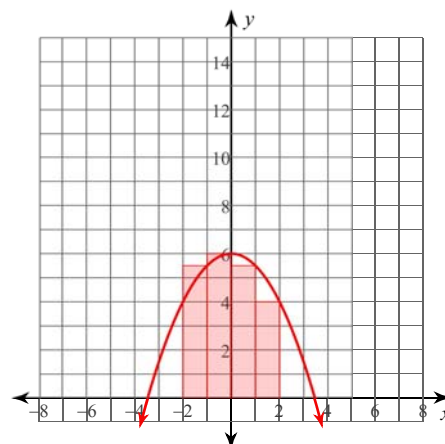
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3) $y = x^2 + 2$; $[1, 3]$



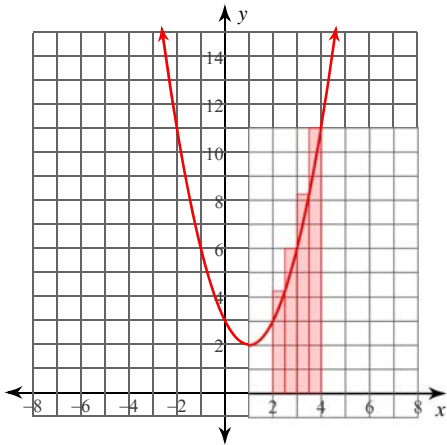
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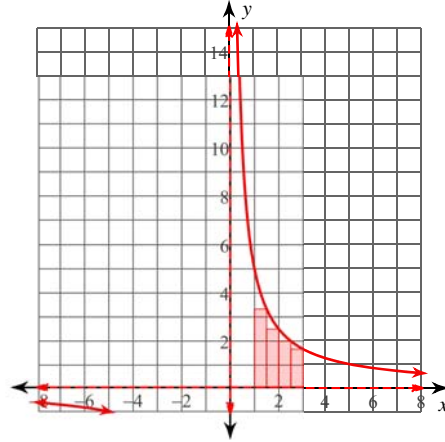
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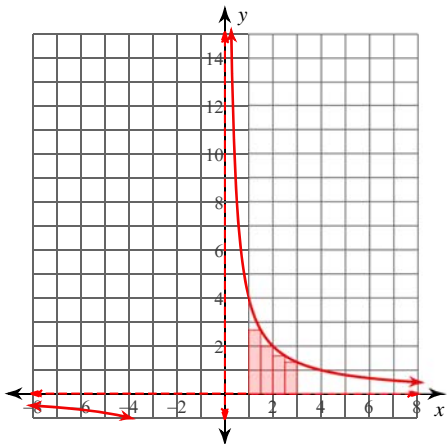
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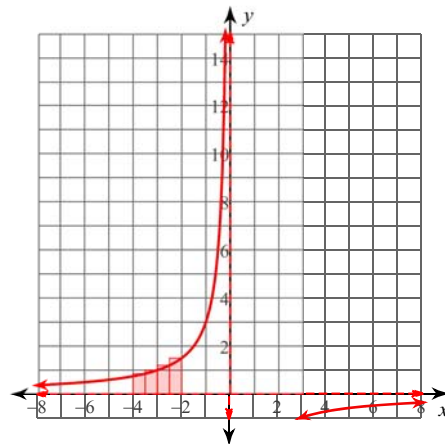
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