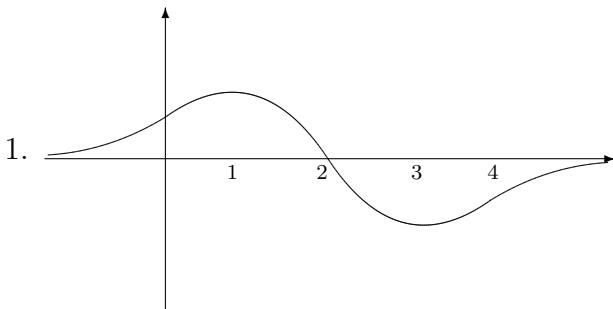




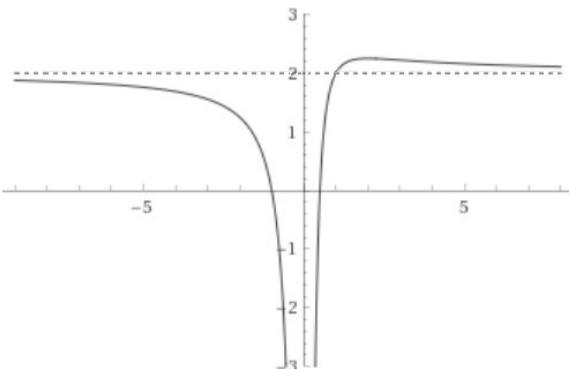
Answers



2. VA: $x = 0$, HA: $y = 2$, intercepts: $(-1, 0), (\frac{1}{2}, 0)$

Note: $y' = \frac{-(x-2)}{x^3}, y'' = \frac{2(x-3)}{x^4}$

CP: 2 ; PI: 3 . Graph at right.



3. $4\sqrt{\frac{2}{3}}$ by $\frac{32}{3}$

4. (a) $5/6$ (b) $1 - \pi/4$ (c) $e^2 x + \frac{5}{8}x^{8/5} - e^x + C$

5. $f(x) = x^2 - \sin x - x + \pi - \pi^2$

6. $f'(x) = \frac{2x}{1+x^4}$; min value is 0 (at $x = 0$; $f(x) \geq 0$ obviously!).

7. $128/5$

8. $\lim_{n \rightarrow \infty} \left(\sum_{i=1}^n \frac{2i}{n} 2^{\frac{4i}{n}} \right) \frac{2}{n}$