

Oga 3.1 / 4ebp. 2015 $\frac{\text{elsp. 2015}}{S(x) = \begin{cases} 3 + b_1 x - x^3 \\ 1 + b_2 (x - 1) + b_3 (x - 1)^2 - 2(x - 1)^3 \end{cases}} \quad 1 \le x \le 3$ $\zeta(x) = \begin{cases}
b_1 - 3x^2, & 0 \le x \le 1 \\
b_2 + 2b_3(x-1) - 6(x-1)^2, & 1 \le x \le 3
\end{cases}$ $\zeta(x) = \begin{cases}
-6x, & 0 \le x \le 1 \\
2b_3 - 12(x-1), & 1 \le x \le 3
\end{cases}$ $\lim_{x\to 1} \frac{1}{\sin 50x} = \lim_{x\to 1^+} \frac{1}{\sin 50x} \implies -6 = 2b_3 \implies b_3 = -3$ Rouer: · ling s'(x) = ling s(x) => b, -3 = bq Apa: $s(0) = b_1 = -4$, $s'(1) = b_2 = -4$. $\frac{1}{5(x)} = \begin{cases} 2+Bx + x^2 - 2x^3, & 0 \le x \le 1 \\ 2+b(x-1) - 5(x-1)^2 + 7(x-1)^3, & 1 \le x \le 2 \end{cases}$ $\zeta(x) = \begin{cases}
B + 2x - 6x^{2}, & 0 \le x \le 1 \\
b - 10(x - 1) + 21(x - 1)^{2}, & 1 \le x \le 2
\end{cases}$ $S(x) = \begin{cases} 2 - 12x, & 0 \le x \le 1 \\ -10 + 42(x - 1), & 1 \le x \le 2 \end{cases}$ $m \leq c \propto \frac{1}{2} = \lim_{x \to 1^+} \frac{1}{2} = 2 - 12 = -10 = 11$ Coase : ling(x) = ling(x) => B+2-6= b=> b=B-4 5/0) = f(0) (1) lims(x) = lims(x) => 2+B+1-2=2=)B=1 (1) = 5(0) = B=1, (2) = 5(0) = 6-10+21=

Diga 4.1 | 4 clp. 8016 $S(x) = \begin{cases} 8xx^{3} + 2x^{2} - 1, & 0 \le x \le 1 \\ |b(x-1)^{3} + c(x-1)^{2} + d(x-1) + e, & 1 \le x \le 2 \end{cases}$ $5(x) = \begin{cases} 3ax^{2} + 4x, & 0 \le x \le 1 \\ 3b(x-1)^{2} + 2c(x-1) + 1, & 1 \le x \le 2 \end{cases}$ $5(x) = \begin{cases} 6ax + 4, & 0 \le x \le 1 \\ 6b(x-1) + 2c, & 1 \le x \le 2 \end{cases}$ advato, apa to Scropeno otti 4 SC) Elvan quotein kulikin Splane edvan landanteno. $\frac{9^{2}}{9^{2}} = \frac{9016}{6 + 4(x-2) + 4(x-2)^{2} + 16x-2^{3}}, \quad 0 \le x \le 2$ $\zeta(x) = \begin{cases}
-2 + \frac{3x^2}{2}, & 0 \le x \le 2 \\
4 + 2c(x-2) + 3d(x-2), & 2 \le x \le 3
\end{cases}$ $\zeta_{(x)}^{(1)} = \begin{cases} 3x, & 0 \le x \le 2 \\ 2c + 6J(x-2), & 2 \le x \le 3. \end{cases}$ $\lim_{x\to 2^{-}} f(x) = \lim_{x\to 2^{+}} f(x) \Longrightarrow 6 = 2c = c=3$ Moires: $\lim_{x\to 2^{-}} f(x) = \lim_{x\to 2^{+}} f(x) \implies -2+6 = 4 \implies 4 = 4, \text{ logical.}$ $\lim_{x\to 2^{-}} f(x) = \lim_{x\to 2^{+}} f(x) \implies 6-4+\frac{3}{2} = 6 \implies 6 = 6, \text{ logical.}$ $\lim_{x\to 2^{-}} f(x) = \lim_{x\to 2^{+}} f(x) \implies 6-4+\frac{3}{2} = 6 \implies 6 = 6, \text{ logical.}$ In va ava quarti: S(0) =0 => 0=0, 10 you $f_{(3)}^{(1)} = 0 \implies 2c + 6d = 0 \implies (3=-1)$

Firs:
$$s(x) = \begin{cases} ax^{2} + bx^{2} + cx + d \\ ax^{2} + bx^{2} + cx + d \end{cases}$$
, $t \le x \le 0$ (Not]

$$s(x) = \begin{cases} ax^{2} + bx^{2} + cx + d \\ ex^{2} + fx^{2} + gx + d \end{cases}$$
, $t \le x \le 0$

$$s(x) = \begin{cases} a(x+1)^{2} + b(x+1)^{2} + c(x+1) + d \\ e(x-5)^{2} + f(x-6)^{2} + g(x-6) + h \\ e(x-5)^{2} + f(x-6)^{2} + g(x-6) + h \end{cases}$$
, $t \le x \le 0$

$$s(x) = \begin{cases} 3a(x+1)^{2} + 2b(x+1) + c \\ 3e(x-6)^{2} + 2f(x-6) + g \end{cases}$$
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