Elercicio 6.5. Colchar les signientes integrales 9) Sa (x+a) (x+b) (O(a (b) Calcularos la factorización percol  $\int_{a}^{b} \frac{A}{(x+a)} + \frac{B}{(x+b)} dx = 0$ Ax+Ab+Bx+Ba=L=  $A+B=0=>A=-B=>A=\frac{1}{a-b}$   $Ax+Ab+Bx+Ba=L=>-Bb+Ba=L=>B(-b+a)=L=>B=\frac{1}{a-b}$ = )  $\int_{a}^{b} - \frac{1/a-b}{(x+a)} + \frac{1/a-b}{(x+b)} dx = \frac{-1}{a-b} \Big( \frac{b}{a} + \frac{1}{a-b} + \frac{1}{a-b} \Big) \frac{1}{a-b} dx = \frac{1}{a-b} \Big( \frac{b}{a-b} + \frac{1}{a-b} + \frac{1}$ = 1 (-la 15-41-la (2a) +la 1261-la (a+6)) (= | 1 - la | 26 25 | + 6 | r) 1 13. 1x Calculanos la factorización parcial -1 -1 1 -1 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1 101 1

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$$=\frac{1}{3}\ln(2) - \frac{1}{3} = \int_{0}^{2} \frac{1}{x^{2}-x+1} dx = \frac{1}{3}\ln(2) - \frac{1}{6}\left(\ln(1) - \ln(1-1)\right) - \frac{1}{6}\int_{0}^{1} \frac{-3}{x^{2}-x+1} dx = \frac{1}{3}\ln(2) - \frac{1}{6}\left(\ln(1) - \ln(1-1)\right) - \frac{1}{6}\int_{0}^{1} \frac{-3}{x^{2}-x+1} dx = \frac{1}{3}\ln(2) - \frac{1}{6}\left(\ln(1) - \ln(1-1)\right) - \frac{1}{6}\int_{0}^{1} \frac{-3}{x^{2}-x+1} dx = \frac{1}{3}\ln(2) - \frac{1}{6}\left(\ln(1) - \ln(1-1)\right) - \frac{1}{6}\int_{0}^{1} \frac{-3}{x^{2}-x+1} dx = \frac{1}{3}\ln(2) - \frac{1}{6}\left(\ln(1) - \ln(1-1)\right) - \frac{1}{6}\int_{0}^{1} \frac{-3}{x^{2}-x+1} dx = \frac{1}{3}\ln(2) - \frac{1}{6}\left(\ln(1) - \ln(1-1)\right) - \frac{1}{6}\int_{0}^{1} \frac{-3}{x^{2}-x+1} dx = \frac{1}{3}\ln(2) - \frac{1}{6}\left(\ln(1) - \ln(1-1)\right) - \frac{1}{6}\int_{0}^{1} \frac{-3}{x^{2}-x+1} dx = \frac{1}{3}\ln(2) - \frac{1}{6}\left(\ln(1) - \ln(1-1)\right) - \frac{1}{6}\int_{0}^{1} \frac{-3}{x^{2}-x+1} dx = \frac{1}{3}\ln(2) - \frac{1}{6}\left(\ln(1) - \ln(1-1)\right) - \frac{1}{6}\int_{0}^{1} \frac{-3}{x^{2}-x+1} dx = \frac{1}{3}\ln(2) - \frac{1}{6}\left(\ln(1) - \ln(1-1)\right) - \frac{1}{6}\left(\ln(1-1) - \ln(1-1)\right) - \frac{1}{6}\left(\ln$$

$$\frac{1}{3}\ln(2) + 2\sqrt{(x-\frac{1}{2})^{\frac{2}{3}}} dx = \frac{1}{3}\ln(2) + 2\frac{14}{3}\log\frac{1}{1+(\frac{2}{3}(x-\frac{1}{2}))^{\frac{1}{2}}} = \frac{1}{3}\ln(2) + \frac{2}{3}\arctan(\frac{2x}{\sqrt{3}} - \frac{1}{\sqrt{3}})\frac{1}{\sqrt{3}}$$