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ialulo 2, stement vol. 1, ed. 8, cap 7.4
1a) A + B
                               b) A + B + C + D
(1+2x) (3-x)
                              b) x^3 - 3x^2 + 2x = x(x^2 - 3x + 2)
3 a) x^2 + x^4 = x^2(1 + x^2)
\begin{array}{cccccc}
A + B + Cx + D \\
\times & x^2 & (1+x^2)
\end{array}
                          = \times (x-1)(x-2)
                                A + B + C
5 a1 x2-4 = (x-2) (x+2) b) quadradar irradutiveis
opini de numerador emaior A \times +B + C \times +D + E \times +F
x^2 - x + 1 \qquad x^2 + 2 \qquad (x^2 + 2)^2
\int (2x+1)(x-1)
  A(x-1) + B(2x+1) = 5x+1 Ax-A+28x+B = 5x+1
                    (2x+1)(x-1)
       (2x+1)(x-1)
                                       A \times + 2B \times - A + B = 5 \times + 1
                               x (A+2B) +(A+B)
     A+2B=5 B=1+A 3A=3
     -A+B=1 A+2+2A=5 A=1 B=2
    \frac{1}{2x+1} \frac{dx}{dx} + \int \frac{2}{x^2} dx = \frac{1}{1} \cdot \int \frac{1}{1} dx + \frac{2}{1} \cdot \int \frac{1}{1} dx
 resolvendo a integral equivalente
 u=2x+1 du=2 v=x-1 dv=1
= 1 \cdot \ln|2x+1| + 2 \cdot \ln|x-1| + c
\frac{11}{2} \int_{-2x^2+3x+1}^{4} \frac{2x^2+3x+1=0}{-8+\sqrt{9-8}} = 0
                    -B±19-8/4=0 X'=-1
                           -3 \pm 1/4 = 0 x'' = -\frac{1}{2}
2 \int 1 dx = 2 \int 1 dx = A + B = 1
2(x+1)(x+\frac{1}{2}) \qquad (2x+1)(x+1) \qquad 2x+1 \qquad x+1 \qquad (2x+1)
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A(x+1) + B(2x+1) = Ax + A + 2Bx + Bd = x(A+2B) + A+B
                     B=-1
   A+B=1
            A = 1 - B
  A+ZB=0 1-B+2B=0 A=2
            1 du (= ) -ln |2x+1| - ln |x+1| + C
            (x+1)
 apliando
(ln |3| - ln |2|+c) - (lotT-lotT+e).2= ln |3/21.2 1-10 2
   ax 1 de + 1 x2 - bx = 1 x (x-b)
   x^2 - bx
                 A + B = \alpha x = A(x-b) + Bx
                   x-b x(x-b) x(x-b)
  A+B=a^{(1+\alpha)(1+\alpha)}Ax-Ab+Bx=ax
  -A = 0 X (A+B)+b(-A) = ax
                                 (1-x)(1+x)
  B= 0 = 141 - 1851x1
  0 de + ( a de =)
         J \times -b
                 x-/b
   X
            diex-b di =11 de +1
= a. ln |u| = a. ln |x-b|+e
   2 4x2-7x-12 A + B + C = 1 4x2-7x-121
17
  \int_{1} x(x+2)(x-3)   (x+2)(x-3)   (x+2)(x-3)
A(x+2)(x-3) + Bx(x-3) + Cx(x+2)
  = A (x2-3x+2x-6)+Bx2-3Bx+0cx2+20x1-5-11+-51+1:
 = Ax^2 - Ax - 6A + Bx^2 - 3Bx + Cx^2 + 2Cx
 = Ax^2 + Bx^2 + Cx^2 - Ax - 3Bx + 2Cx - 6A
 = x^{2} (A+B+C) + x (-A-3B+2C) - 6A
 A+B+C=4
                  B+C=2 (.3)
                  -3B+2C=-5
  -A - 3B + 2C = -7
 5c = 1
  A = 2 B = \frac{9}{5} C = \frac{1}{5}
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resalvendo a integral aquisalente
[2 du +9[1 du +1[1 du
$\int \frac{2 du + 9 \int 1 du + 1 \int 1 du}{5 \int x + 2} \int \frac{1}{5 \int x - 3}$
$= 2 \ln x + 9 \ln x + 2 + 1 \ln x - 3 + c$ 5
5 5
aplicando (2)
$\frac{2 \ln 2 + 9 \ln 4 + 1 \ln -1 }{5} - \frac{2 \ln 1 + 9 \ln 3 + 1 \ln -2 }{5}$
5 5 5
$= 2 \ln(2) + 9 \ln(4) - 9 \ln(3) - 1 \ln(2) = 9 \ln(2) + 9 \ln(4) - \ln(3)$ 5 5 5 5
5 5 5 5 5
= ln(8/3).9
5