Tema 8 . Remetice as unterpaire" 1. 5/2 x 2-2x -1 + sin x - cosx + linx + ex) dx = = = = x3 - x2 - x - cosx - smx + ex + flnx dx; $\int u = \ln x \Rightarrow du = \frac{dx}{x}$ $\int dv = dx \Rightarrow V = x$ $\int \ln x \, dx = x \ln x - \int x \cdot \frac{dx}{x} = \frac{1}{2} \int \ln x \, dx = x \ln x - \int x \cdot \frac{dx}{x} = \frac{1}{2} \int \ln x \, dx = \frac$ = x ln x -x +C Orber: 3x3-x2-x-cosx-8mx+ex+xlux-x+C 2. [(2x+6x22-5x2y-3luz)dx = $= x^2 + 3x^2 + 3x^2 + \frac{5}{3}x^3 - x \cdot 3 \ln 2$ 3. \[3x^2 \sin(2x) dx = -\frac{3}{2} \times^2 \cos(2x) + \frac{1}{2} \sin(2x) \cos(2x) \cos([U=3x2=) dU=6xdx (dV=3111(2x)dx=)V=-== ces(2x) = $-\frac{3}{2} \times^2 \cdot \cos(2x) + 3 \cos(2x) \times dx =$ lu= x ≥ du= dx (dV = eos(2x)dx => V = 8m(2x) = $-\frac{3}{2}x^2 \cdot \cos(2x) + 3(\frac{1}{2}x\sin(2x) - \frac{1}{2}\int \sin(2x)d(x) =$ = - 3 x2 - cos(2x) + 3 x - 3/11/2x) + 3 cos(2x) + C

