















四中 (13) 2 (b) y= x (sin x) ln (x) dy = 1 (sinx) ln(x) + x(coxx)ln(x) + xsinx)(\frac{1}{x}) = sinx lix + xcosx lnx + sinx A sinxlax+ xcosxlax+sinxxx 7= e + e + e + e + e + 8 x e dy = 0+8ex+ex+ x'ex+ lis 8ex+ lis 8x A. 40 (tonesx) (sec2e5x) A. 8e8x+ex+x1ex+ In8.8xex dy = 40 (tane x) (sec exx)  $\frac{d^{2}y}{2x^{2}+y^{2}=5} = \frac{d^{2}y}{dx^{2}} = \frac{-2y+2x\frac{dy}{2x}}{y^{2}} = \frac{-2y^{2}-4x^{2}}{y^{3}} = \frac{-2y^{2}-4x^{2}}{y^{3}}$  $\frac{dy}{dx} = \frac{-2x}{y} + \frac{1}{(\pi_1^2)^{-2}} = \frac{1}{(\pi_1^2)^{-2}} = \frac{1}{2\pi^2} = \frac{$ A O dy - - 2x O dy - - 2y - 4x 3 - 52 0 5



