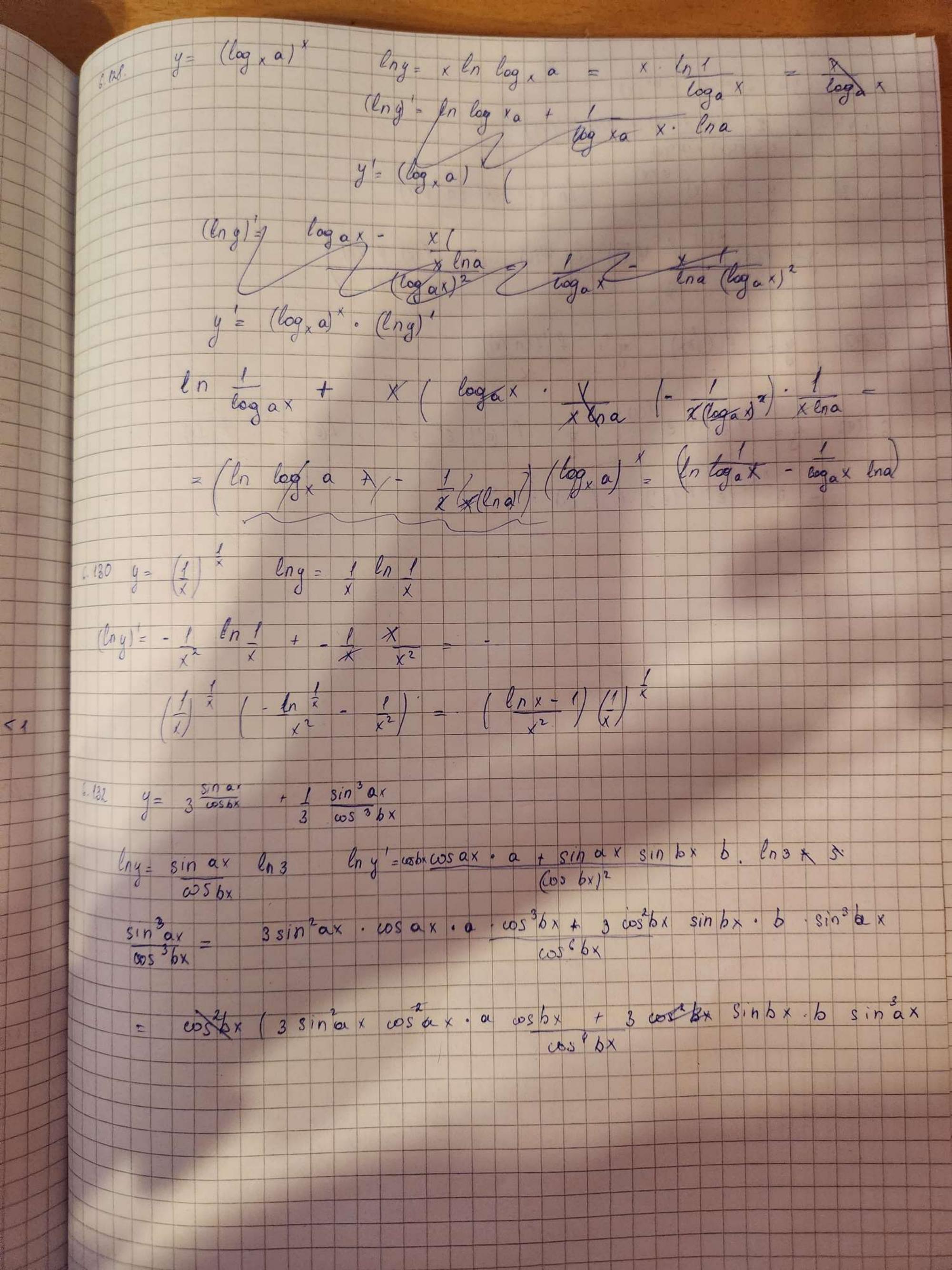
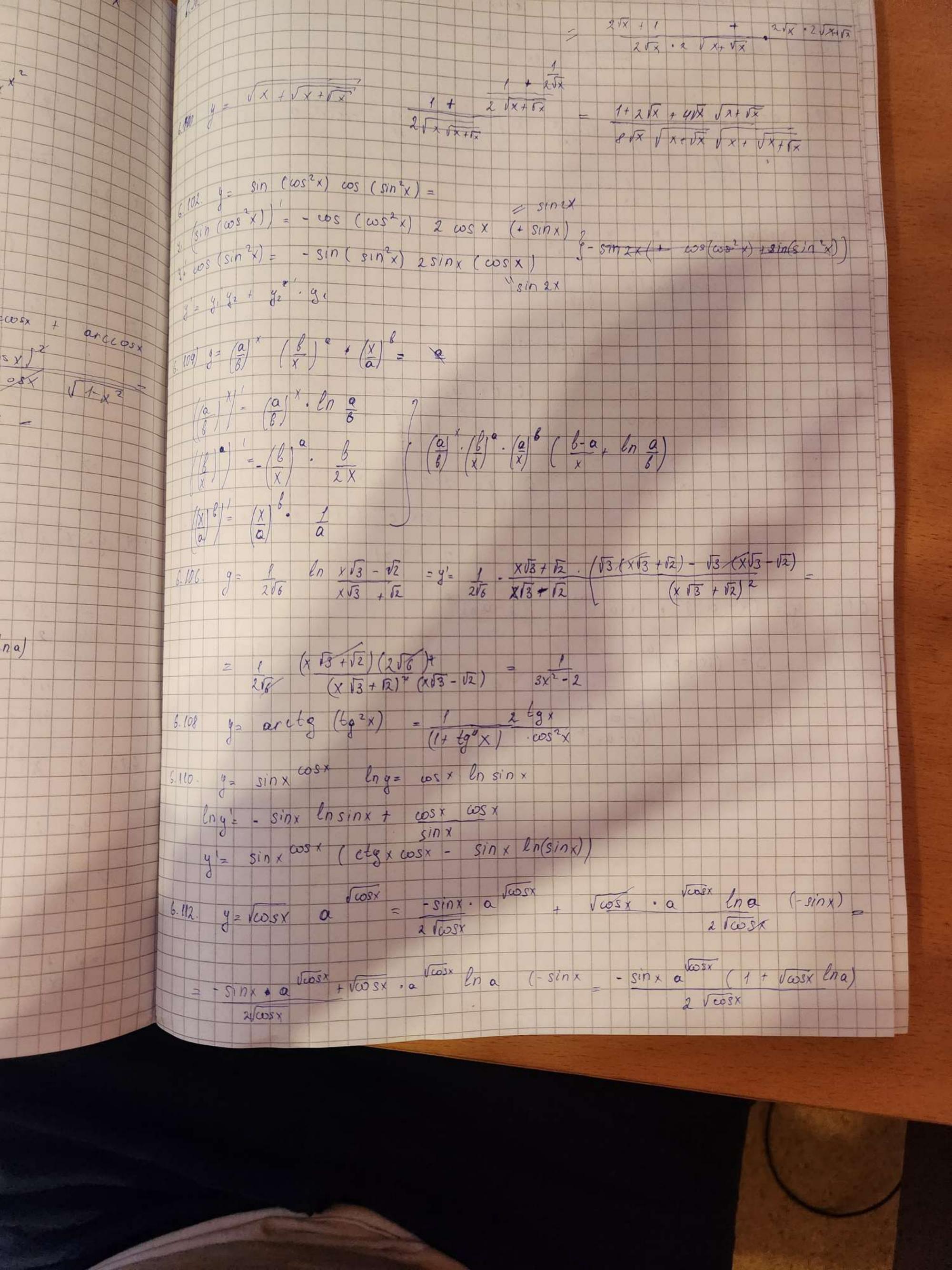
6.136. 3.5 1 00 00 To (ex 0 P(x) O d 10 0 0 50 11



n 311 -9 120 ourcsin 010 0 = 00 13 arcsin × Z 1-1 Chx ON CSIDX × × O'X 15 XINO 11 マナ ×>0 × 10 Chax V XA 20 0 11 0 2000 XE + 2 Chx X 0 20 × 101-0 XP 0 X X 03 30 132 00 20



6.30 y= x = lnyx * (lny' = & (x'lnx + x)lnx y'= x . (ln 3) 6.32. y= xx 1 x 22 lny = x2 ln x = xloy = 2 x lnx + 1 y = (2 x lnx + x) . x Iny = 2 * lnx y= 2 * (2 * h2 · lnx + 2 *) 102 9 = Sin 4 = 6 90. ((Sin (003 X)) 12 ws (sin x) 6.94 y= (arccosx) In (arccosx) y= 12 ln t J = 8 42 + arccosy = 6 y = 2 t lh t + t = 2 arccosx ln arccosx y = - 2 arccosx. In arccosx + (arccosx) ance of This V1- X2 en arcus + arcusx = -2 arcwsx 11-X2 = percosx (1-2 (n arcosx) V1-x2 6.106. 9= y (1-02) = -a2x, 2. lna (1+a2) - (1-a2x) (a2x 2. lna) (1+ a 2x) 2 6.108 y, y 2 1 y 2 y. 5.110. 6-112.

lne (-2x) 2 X (2x2 +1) -1e Us sne · lna · 2 wsx 0000 2 V sin2 X the low of x - ena · loga X = 1gx lnx lna. x en 10 x lna, Jen (ax2+bx+c) 9 ln e 12 2ax + b ax2+bx+c) ne 676 42 ln (x + Va2 + x2) 2 Vactx21 1 a2 +x2 1x2+a (x+2)(X+1)2 ln X loy= 1 (X+2) (X-1)2 · ((x-1)2 + (x+2). 2 (x-1)) 5x" (x+2)(x-1)2) . X => y'= y · (ln y)' 3x23/x2(x+2)2(x-1) $(\ln g) = \frac{\chi^3 \ln \chi - 1}{2} = \frac{(\ln g)'}{2} = \frac{\chi^3 \ln \chi - 1}{2}$ 114 y= x 1 (X+2) x-1 (X+2) (X-2 $(x+2)\sqrt{x-2} - (x-1)(\sqrt{x-2} + (x+2))$ $\frac{3x^{2}}{2}$. $\ln \frac{x-1}{x} + \frac{x^{3}}{2}(x+2)\sqrt{x-2}$. (x+2) [x-2 = UX5 - 4x4 - 58x + 48x2 41x 1 V(x+2)3 V(x-2)5) K JR y= 2 × / (n (2) (x) (b 10 cosy) b sion = 188. 4= (tn x) = en (enx) + (Eny) = -(lnx) ln X (En X) X ln y= - ln (ln (x)). (ln x) 201 1 1 Cox

4 sin 2x 6.48. g = 6 cos 2x = -6 sin 2x . 2 = -650. y= V(11 3x2)3 = y= (11 3x) + 3 (11 3x2) $6.52 \quad y = \sqrt{1 + \sin 4x^2} - \sqrt{1 - \sin 4x} = \frac{\cos 4x}{2} \cdot \frac{4}{1 + \sin 4x} - \frac{\cos 4x}{2} \cdot \frac{1 - \sin 4x}{2}$ 154 y= (cos (| X |) = y = 1 cos (| - X) . (+ sin (| - X)) . (+ 1) 6 79. = 1 cosx 6.56 y= x²e=2x 2x · e 2x + x². e 2x. lne · (-2) = 2x · e 2x (1+ x lne') 6.58. y= X \(\times \tau \) \(\ta U K2+a ax 2.82 a+ 2 1 2x - 1x2+a x 2 1x2+a 2x+2 1x2+6 2x(1-x2)+2x(1+x2) 6-60. y= ln \[\left(+ x^2 \) = y'= 2 / 1+ x2 = 1 11-29 4x 2x AK 2 (1+x4) (1-x4)x 662 y= 3/1+tg(x+1)= 3 3 (1+ 6 9 (x+ P)) 2 1 4. $\omega s^2 \left(x + \frac{1}{x} \right)$ 6.84 0 $= \frac{x^{2} + 1}{3x^{2} \cos^{2}(x+1)} \sqrt[3]{(1+\frac{1}{2})^{2}}$ 6.64 y= Jsinx Jx = 1 2 Jsinx: Jx (ws x Vx + SINX 2 VSINXIZ Sinx 25x · VSIDE VX = Sinx + cos sy 2x + 25sinx sx 6.86. 4 rsinxrx g= orcus/b + a cosx) = y= 0 sin x) = (a + 6 cosx) + (b + a cost 600). 11- (b+ a cosx) (at bwsx)2 2 4 6 003 x san (sina)

