$|x| = e^{-4x}$   $y = -4e^{-4x}$   $y = -4e^{-4x$ e. y = fan (2x + 1) Y - a Makan (25 A) f y = \frac{1}{5:n(2x)} = (0 \( (7x) \) (3x \( (7x) \) (7x) \( (7x) \) (7x) \( (7x) \) (3x \( (7x) \ Z. y = 2x - 2x y = 8x - 6x = b y = 3 cos(8+)+ 5 = 1 = -24 5 = (8+) + 30e 6+ C. y - VIC + ln(x 3) Y = 3x = +2 d Y= 7 t e sin (2) Y = 7(2x e 25:n (2x) + (e 5:n (2x) + (cos (2x) · 2e 2)x2) ( u Y = (05 + /5 in + Y = -(05 (x) - (0/ (x) (5c (x))

6 Y = lin x / tempe Y = corbs (5c² (x) (n (x))

( Y = (x² + x) / (x² - x) / = -2(2x - 1)²

7 (x² + x) / = -2(2x - 1)² d Y- cosh 22 / Sunh (2c-1) 4- 25. uh (2x) csch (x-1) - (oth (2c-1) csch(2c-1) cohley 5. a  $y = (1^3 + 1)$  y' = 333 (35c+1)b  $y = 3 \cdot e^{-cost}$   $y' = -3 \cdot e^{-cos(a)} 5:n(n)$ c  $y = e^{+cost}$   $y' = e^{+cos(a)} 5:n(n)$ d y= In(00)+2) y'= 6 y=0 for y=e-+2 y=-e+2+Ze+ 7 Y= +2+2, Y= 3+2+2+ y"= 6++2 8 y=-t, y=-3t2 y"=-6+ 0=-6+ at t=0 concare up at 470hbase at 200 the Dest yet Tast += contain down at 460 at 20 De: n local domain 9 MRY at y" (0 min at y") 0 - Y= x4-3x y=42 -6x

9 min at (-13-4) and (13)-4). max at (0,0) y"=12e2-6

Y=0. at 0, +12

de = Voc Joc - >c3/5c (1x) 3 dx = 3 · Szidze = 3 · Sx · Sxidz = 3 · Sxidz = in= I in Stem (w) du = I fan (w) du 6 5"4 (x) dx e 5" (3 f(x) - 2g(x)) dx d 5" 7 (x) dx V=(05(6) - 7 (5 / olv) \$ (x) de = 3= I \$ (5c) dx = 6 = II \$ 59 (x) dz 5 = II (05 (2+) = - = ln (cos (2+) + C 9. = IT - IN = 6-3 = 3 unils 6-4(T-I)=4(6-3)=17 noils (=3(T)-2(II)=3(6)-2(5)=18-10=847/8