Real functions

TJ Domain @ Polynomial function domain = R (b) Fractional Function; y = fix) 9(x) \$0 domain = R_ 2 Zerois of deno. 3 @ Rootal function y= add Jex) y= even Jex) D=R D=interval g(x)70 OPerations "J= F(x) ± g(x) D=D, ND2 Common domain y = f(x) D = [D, ND] - [deno] Composite function $(f \circ g)(a)$ $(f \circ g)(x) = f [g(x)]$ graphically X_axis N Y_axis Domain range range

graphs D linear function f(x) = Xf(x) = -xQ had. 2 $f(x) = \chi^2$ Pur Cubic 3 $f(x) = x^3$ f(x) = -x6 0 4 3 fractional 6 [(x) f(x) =

f(x) = |x|f'(x) = -|x|ex formatical $f(x) = \alpha$ $f(x) = \alpha^{k}$ a > 1 $O(\Delta \alpha \zeta)$ inc (-m) (01)) $f(x) = \alpha (dx + b) + c$ $\int (dx) = \alpha (dx + b) + c$ $\int (dx) = 0$ $\int (dx$ (نقُس) مل ^{ائ}رہ (الا ص (0, 2) (0) f(x) = f(x-3) + 8(3,8) $f(x) = \Theta(2(3x+6)+2(\frac{-6}{3},2))$ (-2,2)

dd even even SYM Sym about about July ٥١٤٢ y-akis AG P (*) fex) وب -> - f(x) odd f(-x)باطئ +(L(x) + (\mathcal{P}) ž, z, a sin, tan odd x', x', Cos quen E) (E) (E)Cosn \bigcirc E) Χ x Sin M 5 2 tom E)×0 (\mathbf{O}) 5 Dut:

one-to-one f(a) = f(b)not ove -ohe a-20 Abs - equation 1×1 = -ve X = 0 ((X) = + ve Condi D AL 271 2 Solve 3 Check 5.0-| = | by Squar, & ine -Je VC くの P

 $|x| < \alpha$ _a< x <a s.s. :] - a, al $|\alpha| >$ X <u>- a</u> X S.S. =