Q= VX

(x-7) (X+3) 50 boundary at -3, 7 tess -4 0 8 (-4-7) (-4+5) <0 (-11) (-1) <0 X (0-7)(0+3) <0 (-7)(3) <0 -2150 V (8-7) (8+3) 40 (L) (L) (L) (D) X Only valid RAME is [-3,7] X2 +5x+4>0 (X+1) (X+4) >0 bounda at -4, -1 (-5+1)(-5+4) >0 (-4)(-1)>0 4>0-0<(405-)(1+5-) (-1)(2)50 (0+1)(0+4)>0

(-00, -4) U (-1,00)

X2-5x+4>0 (x-4)(x-1)20 Founda, 1, 4 Pest 0, 2,5 02-5600+4>0 (2)2-5(2) +4>0 4-10+4>0x 5-2-5(5) + 4 > 6 (+0,1)U(4,00) 12(x-1)64 48 -852(x-1)+458 -125-S(X-1) 54 -64 X-122 [-5,3]

$$(-3,-4)(6,-8)$$

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$$(\frac{3}{2},-\frac{12}{2})$$
even or odd: replace \times outh $-\times$ > same equations oven
$$(-3,-4)(-3,-4)$$

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13)
$$S(x) = x^2 + 2x + 3$$
 $S(x) = x^2 + 2x + 3$
 $S(x) = x^2 + 2x$

16) 400) = = -3 find 5 (00) are 3x-3-6(0) 9(x) = X++ (FOD) = 3 -3 (f-97(0) = 3(x=)-7 × = 22 -3 = X+7-7 V+3= 7/4 (909) (8) = (3x-7)+7 y (80+3) = 7 = 3 = X りー デモ3 (205)(N) = (905)(N) = X 17) Varter Carly AR BOLM PCN2 = 2(X-3)2-1 -2(X+1)2+5=8(A) (3,-1) (G1,5) h(x) = 2x2-8x+3 - X3+5X+8 = K(X) = = = = 1 EQ = = = 1 - 2 = - (-8) = 2 M(S) = 3(S) 2-8(S) 63 K(1)=-1+2+8=9 (1,9) (2, -5) 900 =-4x2+8x-3 (8) FCO) = 6-4x+x2 Leading coelliand is negative Leading coefficient x2 MINIMUM MAXIMUM

Evaluate 109264 1093 5 64=2× 5 = 5 × N = -1 66=X Solve: ,45x-1=64 53x-1=35 5x-1=2 42x-1 = 43 5x = 3 5x = 3 Green A=P(1+5)nt P= 50000 r=7.5% A= Pert 3P=Pe0.075t 23=e0.075t 23=e0.075t) TRIPLE AMOUNT = 3P 3P=P(1+0.075)40 3 = (1.01875)46 en3 = 0.0756 le ln3=46 ln (1.01875) 0.075 st en 3 4 On (1.01875) = E 14,78 years 14.64 your = t 1938/=9 73 = 10949 7 3=1094X 43 > X 492=7 30=81 X=66 4=4 To solve, but.

23) 1 st 15 NOD X cant be regative 24) 2 ln x+ 3 ln (x+5) 42096X-229,5-10/0964 + log = x - [2608 = 5+10 log = 5] en x2 + en (x+3)3 4 logsx - [logs 25 + logs y 10] en [x 3 x+5] + log 6x - [109 6 [25 y 10]] los x 4 - los [25 y 10] 2096 7 X X 25 y 10 Use change of base 1090,17= 109 13 = 1,5937 On (7 = -1.2304 Solve 5×=17 32x+3x-2=0 Socution available 2n5 = 2n17 pononory emaile MOON MONDAY for X5 PM = 1.7604 logs 17=X. use change of LOS 17 = 1-7604

$$7^{x+2} = 410$$
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