Moth 1105 Re-Design Friedlexam review 1.) Multiply + reduce $3 \times +9$ 4×-12 $4 \times$ 2.) Multiply (2-3i)(4+5i) and put in a+bi form FOIL: 8+10i-12i-15i2 = 8-2i-15(-1) = 8-2i+15=23-2i Factor (3x+2)(x-5)=0 or Quad formula $X=-b\pm\sqrt{b^2-4ac}$ $X=-\frac{2}{3}$ $X=5^{-1}$ $X=\frac{13\pm\sqrt{169+120}}{6}=\frac{13\pm\sqrt{289}}{6}=\frac{13\pm\sqrt{289}}{6}$ 1 Sobre $\sqrt{2x+8}=4$ -12.17 63) Sohetle equation 3x2-13X-10-0 4) Solve \(\)\(\)\(\)\(\)2\(\)\(\)\(\) = 4 = 13+12-30=5 13-17=-4=-3 5.) Solve 2y-13/y +20=0 W=5/2 M=4 let y=12 202-130 +20=0 Ty=11 facta or use Qued formula Vg=5/2 Vg=4 4=(5/2) 4=4 =35 4=16 (x*4) (x+2) =0 (-0,-4] (-4,2] (2,0) -200 X=-4, X=2 let x=-5°-4 X=0 2 (-1)(-7) =0 (4)(-2) (-1)(-7) =0 (4)(-2) -8=0 yes X=3 (7)(1) =0 7 50 ND 3X-6=9 3X=15 X=5 -9=3X-6 -3=3X X=-1

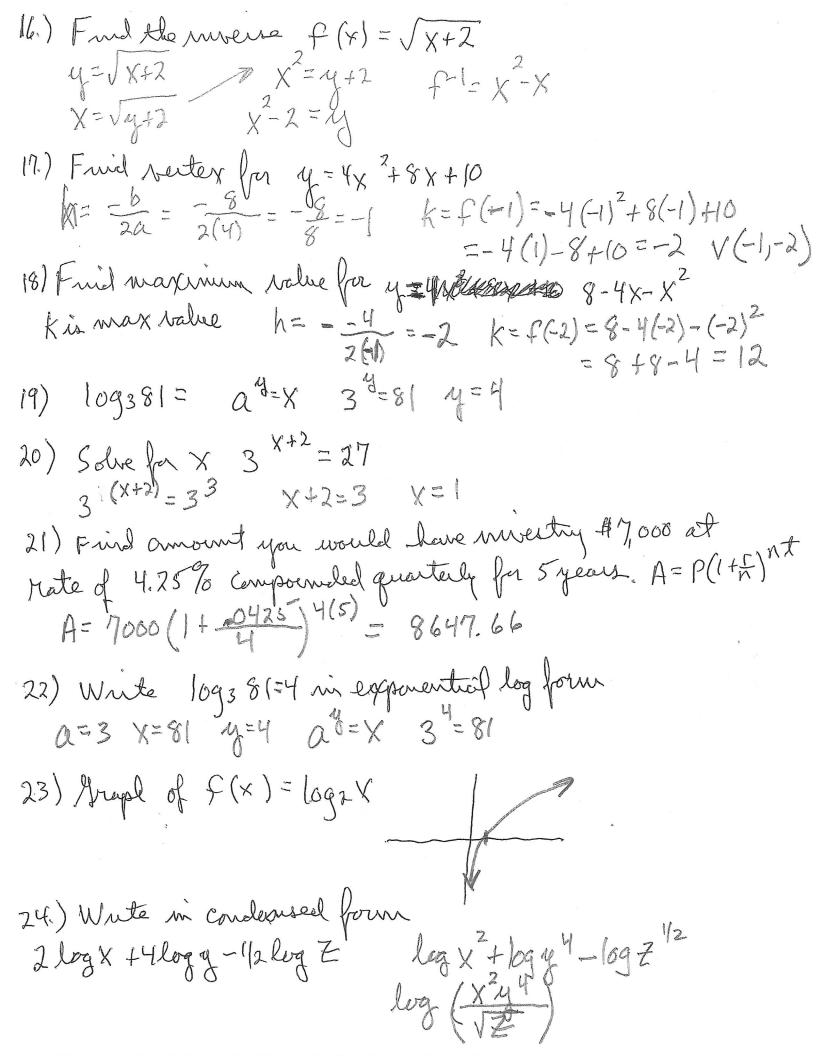
8.) Solve [3x-7[25 -5 > 3 x -7 > 5 2>3 x > 12 (3 > 10 > 4) X = 3 U X = 4 (-0, 3) U (4, 0) 9.) Find distance between (-2,4) and (6,-2) d=/(x2-x1)2+(y2-y1)2 = /(6+2)2+(-2-4)2 =/82+(-6)2 =/64+36 = /100 = (0 10.) Find midpoint (5,2) and (-1,4) $mdpt(\frac{57}{2}, \frac{1}{2}) = (\frac{4}{2}, \frac{2}{2}) = (2,1)$ 11) Tellef a function is even orodd y= x²H even y= x³+X odd 12) Find equation of write with center of (-2,4), reading =3.

(X+2)2+(y-4)2=9 f(3) = 3(3) = 9 19-32 V9-9 13) of $f(x) = \frac{3x}{\sqrt{9-x^2}}$ find f(3)= 3 = 2 = undefined 14.) If $f(x)=x^2$, what would new equation

be if longarital shift 3 right, restrict shift down 1, reflects

X-axis $f(x)=-(x-3)^2-1$ 15) For $f(x) = x^2 + 2x - 1$ and g(x) = 2x - 3 find fog

Fog = (2x-3) +2(2x-3)-1 = 4x2-12x+9+4x-6-1 = 4x2-8x+2



25) Calculate
$$\log s$$
 [21 to 2 decimal places
 $\log s$ [21 = $\log |x|$] or $\ln |x| = 5.42$

26) Solve for x $s^{x} = 71$ to 2 decimal places
 $\log s^{x} = \log 71$ $\log s = 2.65$

27) Solve for s $\log (4x-2) = 0$ $\log (3x+1) = 0$
 $\log (\frac{4x-2}{3x+1}) = 0$