Ann: Test 2 today + tuesday W6M] 6. piccewise (P) Vevicw: 1) Rewrite W/ No neg. expinents

2-48 (23y-4)^2

817 20 (xzy)-3 Z) X=7y-3 Find L line through (4,8) 3) Is $\sqrt{X} + \sqrt{y} = 4 \neq A + -n(+;un of (x, \tau))^2$ 4 me) describe transformation:

1 crv)

1 crv) $\frac{4 \text{ me}}{1 \text{ describe}} \frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ $\frac{1}{1 \text{ trans true marries}} = \frac{31 \times 1}{2}$ Preview: 5) describe fi A_{n5} : $f(x) = \begin{cases} -1 & x \leq 1 \\ x \neq 2 & -1 < x \leq 0 \\ 1 & x = 1 \end{cases}$ find Nig Fid s.t. $f(x) = \sqrt{x^3 + 3}$ hug = f. Content: Piecewise defined functions Det: If the rule for f:A >B
on UCA and A \ u is different, then fis piece wise defined. $ex)*f: \mathbb{R} \to \mathbb{R}$, where $f(x) = \chi^2$ on (0,1) and $f(x) = \chi + 1$ elsewhere. Notation: If fix78 is piecewise defred on U its rule can be written as $f(x) = \begin{cases} g(x) & x \in U \\ h(x) & x \notin U \end{cases}$ (or $x \in A(u)$ $f(x) = \begin{cases} x + 1 & x \in (0,1) \\ x + 1 & x \in (0,1) \end{cases}$ -ex) * $f(x) = \begin{cases} x+1 & x \leq 0 \\ x^2 & 0 < x \leq 1 \end{cases}$ $(x+1) & x \geq 1$ you) write rule for

Now) 6.1

frnigh: Alex time,

WbWl Composition $\sqrt{y} = \sqrt{x} - 1$ is it a function of x? dumain? ARO(, 5.-m X=-3 to x=2 on $H(X) = (6x-2)^{2}$ $find f_{g} \neq id S_{f}, \quad f_{0g} = H,$ $\frac{f}{(6x-2)^{2}} = \frac{f}{(x+yx^{2})o(x+y+2)o(x+y+6x)}(x)$ $f_{0g} = \frac{f}{f}$ $f_{0g} =$ Content: Composition. Net: Suppose fiATB and g:B+C, then $gof:A \rightarrow C$ is the function (gof)(x) = g(f(x)) g(f(x)) = g(f(x)) $A \xrightarrow{f} B \xrightarrow{g} C$ if f:A >B, g: (>D where CCB, then "gof" = go(f| (c)) f followed by 5 9 of 1 3 A f $A \longrightarrow A$ ex)Z B ----> B 70 4 >0 ex) $f: \mathbb{R} \to \mathbb{R}$ $g: \mathbb{R}_{\geq 0} \to \mathbb{R}$ $\frac{1}{90f} = 90f \text{ whose } f \text{ is } f \text{ with}$ restricted domain so that f's range is Pro ie, x²-1 Z 0 → |x|z 1 >> x € (-6,1] U[1,6) 11gof": C-071JULI,60> > R $\chi \mapsto \sqrt{\chi^2 - 1}$ you) f(x)=(x+1)(x-2); $g(x)=\frac{1}{x}$ find gof's rule and domain. Now BB 62)