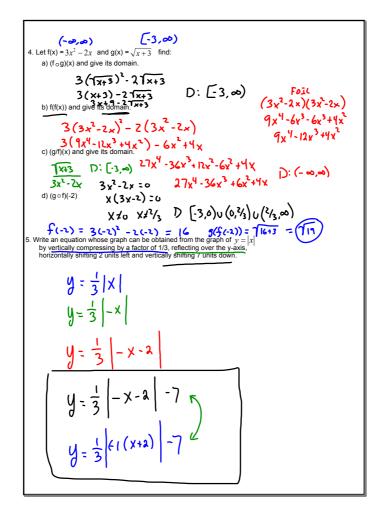
Quiz 1.4 to 1.7 Review	Name:	
Precalculus	Period:	_ Date:
Determine if the following functions are one-to-one:		
$h \xrightarrow{0} \frac{4}{5}$	£)>	$g(x) = 5x^4 - 3x^3$
A N O	YES	ND
2. Find the inverse relation of $f(x)$	$=\frac{3x-1}{2x+4}$ Find the dome	x in of $f^{-1}(x)$.
$y = \frac{3x - 1}{2x + 4}$	24x+4x=3y-1	
(2914) X= 3y-1 (29+4)	$\frac{-4\times}{2}$	8(5×-3)=-1-4x
3. Determine if f(x) and g(x) are inverses	• Su • Z.	$y = \frac{1}{2x-3}$ 3 + 1 and $g(x) = \sqrt{x^3} - 1$
_	<i>(</i> ((
$f(3(x)) = (\sqrt{x^{\frac{2}{1}}})^{3}$	$+$ $g(x) = \int (x^2)^2$	(+1)3-1 D; (-0,3/2)U(3/2)
,	<i>≠</i> X	2x-3=0
$\neq \chi$	N()	2x=3
	NO V	X=3/2



- 10. Mr. Mustache received an inheritance of x dollars. He put it in a CD that earned 5% annual interest and an additional 0.5% bonus yearly on the initial deposit.
 - a) Write a function relating the amount of money in the CD to the amount of his inheritance.

$$f(x) = X + .05x + .005x$$

b) If Mr. Mustache has \$7385 at the end of the first year, how much did he invest?

$$7385 = X + .05x + .005x$$

 $7385 = 1.055x$
 $X = 7000

Quiz 1.4 to 1.7 Review.notebook	October 03, 2016