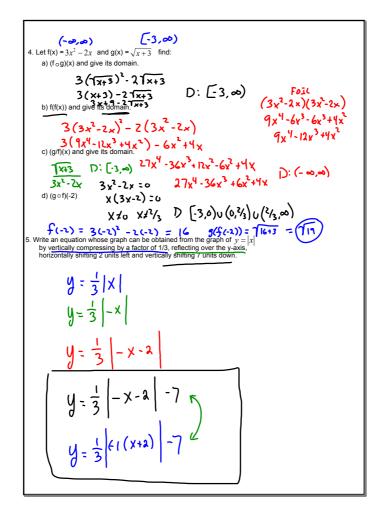
Quiz 1.4 to 1.7 Rev	view	Na	me:		
Precalculus		Pe	riod:	_ Date:	
1. Determine if the following functions are one-to-one:					
h o s	2	<u> </u>	1 >	g(x) = 5	5x4 - 3x3
A N O		YES	V	•	/D
2. Find the inverse relation of $f(x) = \frac{3x-1}{2x+4}$ Find the domain of $f'(x)$.					
$y = \frac{3x}{2x}$	· - (2yx-3y=- y(2x-3)=-	1-4×
(2314) X = 3y.	•	-4x	xy- °	4(5×-3)=-	1-44
3. Determine if f(x) and		$\frac{24 \times = 3}{34 \times 3}$ using composition.	g_{-1} - $f(x) = x^{2}$	$y = \frac{1}{2x}$ 3 + 1 and $g(x) = \frac{1}{2x}$	-3 -3 -1
					<i>x</i> 1
f(g(x)) =	(7x2)3+	-1 g(3	$(x_3) = \int (x_3)$	D: (-0)	%)U(3/29)
	,	·	$\neq X$	8x-3=0	
=	≠	N()		2x=3	
		'V O		$\chi = \frac{3}{2}$	



6. Describe how the graph of
$$f(x) = (x-2)^3$$
 can be transformed to the graph of $g(x) = -(x+2)^3$

7. Find two functions $f(x)$ and $g(x)$ such that $g(f(x)) = y$
 $y = 2(x-3)^2 - 4$
 $f(x) = x-3$
 $g(x) = x-3$

- 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		