-	1	<u></u>	1 -	
Yes	No	I can	Correct	Incorrec
		1. Factor a quadratic with an 'a' value not equal to one.		Sanity and
		$6x^2 + 7x - 3$		
		(3x-1)(2x+3)		
		III.		
×				
		2. Identify the removable and essential discontinuities from a graph.		
				i ii
		VA @ X = 3		
		$1 \qquad \qquad \text{NOW } @ x = -3$		80 ET
		5432 423458 MOV & X - 3		7.
				*
			10.7%	
			A Section	W
			2.3	g
		Describe end behavior, asymptotic behavior, domain, and range of a rational function.	-	
		2(x-1)		
		$g(x) = \frac{2(x-1)}{(x-1)(x-4)}$		
		as $x \to -\infty$, $y \to 0$ D: $x \neq 1.4$ R: $y \neq 0$		
				•0
		$as \times 75, 4700$ as $x \to \infty, 4 \to 0$		104
		as $x \to 3$, $y \to \infty$ as $x \to \infty$, $y \to \infty$ as $x \to \infty$, $y \to \infty$		2 , "
				- H
		D: $x \neq -3,3$ as $x \rightarrow 4^+, y \rightarrow \infty$		
		R: uto		

)
4. Determine essential and removable discontinuities of a rational expression from factored form. $\frac{2(r+2)(r-1)}{r}$. {
$g(x) = \frac{2(x+2)(x-1)}{(x-1)(x-4)}$	الم وقد الله المراجعة	
VA @ X=4		
hole $Q X = 1$		
E. Allestine I amorphisms I ist any restrictions on the domain		
5. Add rational expressions. List any restrictions on the domain. a. $\frac{(3x-5)}{x+2} + \frac{2x+3}{x+2}$		
5x - 2		
X+2		
$b.\frac{2x}{3x-2} + \frac{6}{x+1}$		
$\frac{2x^{2} + 20x - 12}{3x^{2} + x - 2} \qquad x \neq \frac{2}{3}, -1$		
$3x^2+x-2$		
6. Subtract rational expressions. List any restrictions on the domain.		
a. $\frac{4-x}{(x+2)(2x-1)} - \frac{3+4x}{(x+2)(2x-1)}$		
$-5x+1$ $x \neq -2, 1/2$		
William The Committee of the Committee o		
$2x^{2}+3x-2$		

			
	b. $\frac{x+3}{3x} - \frac{2x+7}{x-4}$		
	$-5x^{2}-22x-12$,
	$3x^{2}-12$		
	7. Multiply rational expressions. List any restrictions on the domain. a. $\frac{8x(x+4)}{(x-3)(x+2)} \cdot (x+4)(x+2)$		
	$8x^{3}+64x^{2}+128$ $x \neq 3,-2$		
	X-3	·	
	b. $\frac{3x^2-6x-24}{x^2-2x-3} \cdot \frac{x-3}{6x^2+12x}$		
	$\frac{x-4}{x \neq 3, -1, 0, -2}$		
	$2x^2+2x$		
	8. Divide rational expressions. List any restrictions on the domain. a. $\frac{(x-4)(x+2)}{x(x-3)} \div \frac{(x-4)}{2x(x-3)(x+2)}$	-	
	$2x^2 + 8x + 8$ $x \neq 0, 3, 4, -2$		
3	$2x^2+3x-2$ $2x^2-3x+1$	· · ·	
	b. $\frac{2x^2+3x-2}{6x^2-24x} \div \frac{2x^2-3x+1}{3x-12}$	·	
	$\frac{x+2}{2x^2-2x}$ $x \neq 0, 4, \frac{1}{2}, 1$		

_				•	context.
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ч -	->(1)V←	1 74 11 11 11 17 11	11 17 16 3111 31 13	- III	LICHICAL
U .		IUUVIIUI		U 11.	QQ::EQ;

a. One pipe can fill a pool 1.25 times faster than a second pipe. When both pipes are opened, they fill the pool in 5 hours. How long would it take to fill the pool if only the slower pipe is used?

11.25 hours

b. Working together, Bill and Tom painted a fence in 8 hours. Last year, Tom painted the fence by himself. The year before, Bill painted it by himself, but took 12 hours less than Tom took. How long did Bill and Tom take, when each was painting alone?

c. Jamie has won 8 out of 15 golf tournaments this season. How many more consecutive golf tournaments would Jamie have to win in order to improve her winning percentage to 65%?

$$X = 5$$

10. Solve rational functions. Check for any extraneous solutions.

$$\frac{3}{x+1} = \frac{1}{x^2 - 1}$$

$$X = \frac{4}{3}$$