

Unit 3 Learning Targets

Name	Date	Period
14a111C	Datc	

Learning Target	Assessment	M.L. 4	M.L. 3	M.L. 2	M.L. 1
1. I can multiply & divide rational	3.1 Worksheet				
expressions.	3.1-3.2 Quiz				
	3.1-3.5 Review				
	3.1-3.5 Test				
2. I can add & subtract rational	3.2 Worksheet				
expressions.	3.1-3.2 Quiz				
	3.1-3.5 Review				
	3.1-3.5 Test				
3. I can identify the domain of a	3.3 Worksheet				
rational function.	3.3-3.4 Quiz				
	3.1-3.5 Review				
	3.1-3.5 Test				
4. I can find the asymptotes of a	3.3 Worksheet				
rational function.	3.3-3.4 Quiz				
	3.1-3.5 Review				
	3.1-3.5 Test				
5. I can graph rational functions and	3.4 Worksheet				
identify the zeros, asymptotes, holes	3.3-3.4 Quiz				
and end behavior.	3.1-3.5 Review				
	3.1-3.5 Test				
6. I can solve simple rational	3.5 Worksheet				
equations in one variable.	3.1-3.5 Review				
	3.1-3.5 Test				
7. I can identify when an	3.5 Worksheet				
extraneous solution will occur.	3.1-3.5 Review				
	3.1-3.5 Test				
8. I can solve simple rational	3.5 Worksheet				
inequalities in one variable.	3.1-3.5 Review				
	3.1-3.5 Test		_		
9. I can break a rational fraction into several fractions (partial fractions).	3.6 Worksheet				
	3.1-3.5 Review				
	3.1-3.5 Test				

Mastery Level 4 = I've got this - I can teach this to others. Mastery Level 3 = I understand - I can do this by myself.

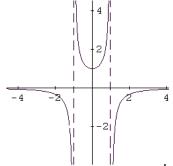
Mastery Level 2 = I mostly get it - I can do this with help. Mastery Level 1 = I don't understand - I cannot do this yet.

$$\frac{4x-1}{x+4} - \frac{2x-9}{x+4} = \frac{(4x-1)-(2x-9)}{x+4} =$$

$$= \frac{4x-1-2x+9}{x+4} =$$

$$= \frac{2x+8}{x+4} =$$

$$= \frac{2(x+4)}{x+4} = 2$$



1) Multiply by LCD:
$$\frac{12(x-1)x}{x+1} = 2(x-1)x$$
1) Multiply by LCD:
$$\frac{12(x-1)x}{x+1} = 2(x-1)x$$
2) Cross Out:
$$12x-8(x-1) = 2x(x-1)$$
3) Distribute:
$$12x-8x+8 = 2x^2-2x$$
4) Set = 0
$$0 = 2x^2-6x-8$$
5) Divide by 2:
$$x^2-3x-4=0$$
6) Factor:
$$(x-4)(x+1) = 0$$
3) Solve:
$$x = 4$$
 or
$$x = -1$$