

## Unit 4 Learning Targets

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

Learning Target	Assessment	M.L. 4	M.L. 3	M.L. 2	M.L. 1
1. I can solve a linear equation.	4.1, 4.3, 4.4, Activities, Starters, Quizzes, Review, Test				
2. I can solve an absolute value equation.	4.1, 4.3, 4.4, Activities, Starters, Quizzes, Review, Test				
3. I can solve a polynomial by factoring, quadratic formula, or square root principle.	4.1, 4.3, 4.4, Activities, Starters, Quizzes, Review, Test				
4. I can solve a radical equation.	4.1, 4.3, 4.4, Activities, Starters, Quizzes, Review, Test				
5. I can solve for a specified variable.	4.2, 4.3, 4.4, Activities, Starters, Quizzes, Review, Test				
6. I can solve equations with rational exponents.	4.2, 4.3, 4.4, Activities, Starters, Quizzes, Review, Test				
7. I can use solving equations in real world applications.	4.1, 4.2, 4.3, 4.4, Activities, Starters, Quizzes, Review, Test				
8. I can compose functions.	4.5, Activities, Starters, Quizzes, Test				
9. I can find the inverse of a function.	4.4, Activities, Starters, Quizzes, Review, Test				
10. I can determine the values of an inverse function from a graph or table.	4.4, Activities, Starters, Quizzes, Review, 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.

$$\begin{aligned} \frac{4x-1}{x+4} - \frac{2x-9}{x+4} &= \frac{(4x-1)-(2x-9)}{x+4} = \\ &= \frac{4x-1-2x+9}{x+4} = \\ &= \frac{2x+8}{x+4} = \\ &= \frac{2(x+4)}{x+4} = 2 \end{aligned}$$

$$\frac{12}{x-1} - \frac{8}{x} = 2 \quad \Rightarrow \quad \text{LCD: } (x-1)x$$

1) Multiply by LCD:  $\frac{12(x-1)x}{x-1} - \frac{8(x-1)x}{x} = 2(x-1)x$

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  $x = -1$