Algebra 2Name:Solving Radical Equations—NOTESDate:	
Review of Operations with Square Roots	
a) Multiply: $(\sqrt{3} - 2)(4 - 2\sqrt{7})$	c) Divide: $\frac{\sqrt{45}}{\sqrt{9}}$
b) Multiply: $(-\sqrt{2})(3\sqrt{5} + 4\sqrt{3})$	d) Divide: $\frac{4\sqrt{3}}{\sqrt{8}}$
Review: Solve the equation by taking a square root. $3(x+2)^2 = 27$	Review: Find the zeros of the function. $f(x) = 6x^2 + x - 1$

Ex 1. Solve the equation.	Ex 2. Solve the equation.
Ex 1. Solve the equation. $2\sqrt{x+1} = 4$	Ex 2. Solve the equation. $\sqrt{2x+5} = \sqrt{x+7}$
Ex 3. Solve the equation. $x + 1 = \sqrt{7x + 15}$	Ex 4. Solve the equation. $\sqrt[3]{2x-5} = 2\sqrt[3]{8x+1}$

Algebra 2	Name:
Solving Radical Equations—Assignment	Date:
1. Solve the equation.	2. Solve the equation.
$x - 10 = \sqrt{9x}$	$\sqrt{2x + 30} = x + 3$
3. Solve the equation.	4. Solve the equation.
$\sqrt{4x + 1} = \sqrt{x + 10}$	$\sqrt[3]{x+5} = 2\sqrt[3]{2x+6}$

5. Solve the equation by factoring. $x^2 - 81 = 0$	6. Solve the equation by taking a square root. What did I do wrong???? Find the step where I did something incorrectly and fix it. Thanks!
	$2(x+1)^2 + 3 = 21$
	$2(x+1)^2 = 18$
	$(x+1)^2 = 9$
	x + 1 = 3
	x = 2
7. Find the zeros of the function. $g(x) = x^2 + 6x + 8$	8. Solve the equation by taking a square root. $3x^2 + 7 = 31$
9. Multiply: $(4\sqrt{6})(5\sqrt{10})$	10. Divide: $\frac{6\sqrt{5}}{\sqrt{15}}$