Integrated Math 3 Math Menu
Solving Quadratic, Cubic, and Radical Equations

Create your own assignment. You have the choice of which problems to complete within each part of the menu. Your total meal must consist of **two** appetizers, **three** main dishes, **two** side dishes and **three** desserts. Neatly show all your work on the space provided. Once your meal it **completed**, you may complete more for extra practice.

Appetizers *(Choose two)*: Solve the equations by taking the square root.			
Chips & Salsa $x^2 - 8 = 8$	**House Salad** $x^2 - 25 = 0$	**Mozzarella Sticks** $-8 + 8p^2 = 0$	**Jalapeño Poppers** $-5x^2 + 7 = -58$
$X = \pm 4$	$x = \pm 5$	$p = \pm 1$	$x = \pm\sqrt{13}$

Main Dishes *(Choose three)*: Solve the equations by factoring.			
Hamburger $x^2 - 3x = 10$	**French Dip** $x^2 - 169 = 0$	**Steak Sandwich** $x^2 - 21x = -110$	**Barbeque Ribs** $x^2 - 14x - 40 = 0$
$X = 5, -2$	$x = \pm 13$	$X = 10, 11$	$x = 4, 10$

Side Dishes *(Choose two)*: Solve the equations using the quadratic formula.			
French Fries $x^2 + 2x = 4x$	**Corn on the Cob** $5x^2 + 2x - 4 = +9$	**Onion Rings** $6x^2 + 3x + 2 = 3$	**Baked Beans** $2x^2 - 5x - 2 = 0$
Factor! → $X = 0, 2$	$x = \dfrac{-1 \pm \sqrt{64}}{5}$	$x = \dfrac{-3 \pm \sqrt{33}}{12}$	$x = \dfrac{5 \pm \sqrt{41}}{4}$

Dessert *(Choose all)*: Solve the equations using any method.		
Chocolate Sundae $x^{\frac{3}{2}} = 729$	**Cheese Cake** $26 = -1 + (27x)^{\frac{3}{4}}$	**Fresh Fruit** $2x^3 = 1024$
$X = 81$	$X = 3$	$x = 8$