Supplements for Math 260S Lab Hour (Category 8 and 9)

1. **(1 hour)**
   Solving two/three equations with two/three unknowns for a unique solution. Use any appropriate method to solve the equations:

   - **Review possibilities of solutions for two equations and two unknowns. Draw graphs to show: Unique solution, no solution, infinite solutions.**
   - **Review Substituion and Elimination method using the problems below.**
   - $3x + y = 4$
     $y = 6x - 5$
   - $6x - 10y = -22$
     $-11x - 15y = 27$
   - $4y + 2x = 18$
     $3x + 6y = 26$
   - $3x - y = 7$
     $x + y = 1$
   - $2x = 4y + 7$
     $x - 2y = 5$
   - $x - y = 10$
     $3x = 3y + 30$
   - $\frac{x}{2} + \frac{y}{3} = \frac{7}{6}$
     $\frac{2x}{3} + \frac{3y}{4} = \frac{5}{4}$
   - $x + y + z = -5$
     $2x + 3y - 2z = 8$
     $x - y + 4z = -21$
   - $-3x + y - 2z = 8$
     $-x + 2y - z = 5$
     $2x + y + z = -3$
   - $2x + 2y = 0$
     $4x + 4z = 4$
     $2x + y + z = 2$
   - $x + 3y - 3z = 12$
     $3x - y + 4z = 0$
     $-x + 2y - z = 1$

2. **(3 hours)**
Solving equations: Quadratic Type, Absolute Value, fractional powers and radical.