Math 9 Unit 3: Solving Equations **Name:**

Homework 3.6- Rearranging equations (and some review problems)

1. Rearrange the kinetic energy equation for the mass, m. $E_k = \frac{1}{2}mv^2$

2. Rearrange this kinematics equation for the displacement, Δd. $(v_2)^2 = (v_1)^2 + 2a\Delta d$

3. Rearrange the molar concentration formula for the volume, V. $c = \frac{n}{V}$

4. Rearrange the density equation to solve for volume, V $d = \frac{m}{V}$

5. Simplify: $\frac{3x^3}{4x^8}(2x^4)^3$

6. Solve for x: $\frac{3x-2}{5} = \frac{-x+4}{2}$