

# Algebra 2

## 0-01 Solve Linear Equations and Inequalities

**Golden Rule**

Do unto others as you would \_\_\_\_\_ them to do unto \_\_\_\_\_. —Jesus

**Golden Rule of Algebra**

Do unto one side of the equation as you \_\_\_\_\_ done unto the \_\_\_\_\_.

**General way to solve linear equations**

1. Get the \_\_\_\_\_ all on one \_\_\_\_\_
2. Get everything \_\_\_\_\_ from the \_\_\_\_\_

Solve  $3x + 6 = 0$

Solve  $2(x + 1) = 5x$

Solve  $4(x + 5) \geq 16$

Solve  $-2x + 5 < 17 - x$

Solve for  $y$ :  $2x + 5y = 12$

Solve for  $h$ :  $3rh + 5h = 7$

A real estate agent's base salary is \$22,000 per year. The agent earns a 4% commission on total sales. How much must the agent sell to earn \$60,000 in one year?