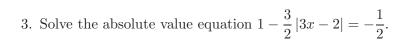
Read each problem **very carefully** before starting to solve it. Each problem is worth 10 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Solve the linear inequality $\frac{x+1}{4} - \frac{x-1}{6} \le x+5$. Please, write your answer in interval notation and graph the solution set.

2. Daniel makes \$20,000 more per year than his wife Rebecca. He gives 2% of his income to charity whereas Rebecca gives 5% of her income to charity. If together, they contribute \$6,000 per year to charity, what is Rebecca's annual salary? (Set variables, stating meaning clearly, write an equation reflecting data and solve the equation.)



4. Solve the **compound inequality**, write your answer in interval notation and graph the solution set:

$$3x - 2 < 7$$
 or $-3x - 4 \le 11$.

5. Write an equation in slope-intercept form for the line ℓ that passes through (-6,2) and is perpendicular to the line ℓ' with equation 3x-9y=7