Read each problem very carefully before starting to solve it. Each problem is worth around 5 points. It is necessary to show all your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [3 points] Use the addition method to solve the system $\left\{\begin{aligned} & 2 x+3 y=18 \\ & 3 x-2 y=-25\end{aligned}\right\}$.
2. [4 points] Solve the system $\left\{\begin{array}{rlr}-x^{2}+y & = & 2 \\ -4 x+y & = & -1\end{array}\right\}$.
3. [4 points] Graph the solution set of the system $\left\{\begin{array}{rrr}y & \leq & -x^{2}+8 \\ y & \geq & 2 x+5\end{array}\right\}$.

Please, show clearly (and label) all intersection points.
4. [4 points] Decompose the rational expression $\frac{12}{x^{2}-4 x-5}$ into partial fractions.

