Use your calculator to graph and solve the inequality

$$
\begin{array}{ll}
\text { 1. } x^{2}+2 x-3>0 & \text { 2. } x^{2}-7 x-8 \leq 0
\end{array}
$$

Solve the equation by graphing by hand
3. $|x+3|=\frac{1}{2} x+3$
4. Solve the system by hand
$6 x-y+3 z=-9$
$5 x+5 y-5 z=20$
$3 x-y+4 z=-5$
4. a) Graph the piecewise function
b) State the domain and range
c) Give any increasing, decreasing or constant intervals

$$
f(x)=\left\{\begin{array}{lr}
-3, & -5 \leq x<-2 \\
x+1 & -2<x>2 \\
-x+2 & 2 \leq x<5
\end{array}\right\}
$$

