Use your calculator to graph and solve the inequality

1.
$$x^2 + 2x - 3 > 0$$

2.
$$x^2 - 7x - 8 \le 0$$

Solve the equation by graphing by hand

$$3.|x+3| = \frac{1}{2}x + 3$$

4. Solve the system by hand

$$6x - y + 3z = -9$$

 $5x + 5y - 5z = 20$

$$3x - y + 4z = -5$$

- 4. a) Graph the piecewise function
 - b) State the domain and range
 - c) Give any increasing, decreasing or constant intervals

$$f(x) = \begin{cases} -3, & -5 \le x < -2 \\ x+1 & -2 < x > 2 \\ -x+2 & 2 \le x < 5 \end{cases}$$