Solve the following Rational Inequalities, give you answer in Interval Notation.

1. \( \frac{(x-4)(x+3)}{(x-1)^2(x+2)} \leq 0 \)

2. \( \frac{x^2+6x+2}{x-2} \geq 1 \)

3. \( \frac{(x+\frac{1}{3})^3}{(x+1)(x-4)} < \frac{(x+\frac{1}{3})^2(x-1)}{(x+1)(x-4)} \)