# Homework 12

Name:

**P 1.** Solve

$$\frac{4x^3}{(x-1)(x+3)} - \frac{4x^2}{(x-1)(x+3)} \geq \frac{24x}{(x-1)(x+3)}$$

**P 2.** Solve
$$-5x^4 + 5x^3 + 55x^2 < -45x - 900$$
[Hint: $x^2 + 9$ is a factor of the polynomial obtained by moving everything to one side]