311 $\begin{cases} x^3 - 8x^2 + 13x - 6 \le 0 \\ \dfrac{1}{x^2 - 2x + 1} \ge 0 \\ \dfrac{x - 6}{x^2 - 2x - 3} < 0 \end{cases}$ $[x < -1 \vee 3 < x < 6]$

312 $\begin{cases} x^3 + 2x^2 > 2x - 3 \\ 3 - 2x - x^2 > 0 \\ \dfrac{1}{x^3 + 27} > 0 \end{cases}$ $[-3 < x < 1]$

313 $\begin{cases} x^4 - 5x^2 + 4 \ge 0 \\ \dfrac{x}{1 - \sqrt{2}} < 0 \\ x\sqrt{3} + 1 \ge x\sqrt{2} - 1 \end{cases}$ $[0 < x \le 1 \vee x \ge 2]$

314 $\begin{cases} \dfrac{2x + 3}{3 - 2x} > \dfrac{1}{2} \\ \dfrac{1}{4 + x^2} \le \dfrac{1}{16 - x^4} \end{cases}$ $[\nexists x \in \mathbb{R}]$

315 $\begin{cases} \dfrac{x}{x^2 - x} > \dfrac{x^3}{x^2 - x} \\ \dfrac{(x - 2)(x^2 - 3x + 2)}{x^4 + x^3 - x - 1} \le 0 \end{cases}$ $[x < -1]$

316 $\begin{cases} \dfrac{2x^4}{6 - x} \ge 6 + x \\ (2x + 3)^2 + 3 < 2x^2 - x - 3 \end{cases}$ $[-5 < x \le -2]$

317 $\begin{cases} 1 + \dfrac{x}{x + 1} - \dfrac{x - 1}{x - 2} \ge \dfrac{x + 1}{x + 2} \\ \dfrac{x + 1}{x^2} > 0 \end{cases}$ $[0 < x < 2]$

318 $\begin{cases} (4x - 1)^2 \ge 36 \\ \dfrac{1}{x + 1} < \dfrac{1}{7}x + \dfrac{1}{21} \end{cases}$ $\left[-\dfrac{10}{3} < x \le -\dfrac{5}{4} \vee x > 2\right]$

319 $\begin{cases} \dfrac{x^2 - 6x - 3}{1 - 2x} \ge 0 \\ \dfrac{x + 2 - 6x^2}{(3x - 2)^2} \ge 0 \end{cases}$ $\left[-\dfrac{1}{2} \le x \le 3 - 2\sqrt{3} \vee \dfrac{1}{2} < x < \dfrac{2}{3}\right]$

320 $\begin{cases} \dfrac{7 + 3x^2(x - 4)}{x - 3} < x + 3 \\ -\dfrac{5}{(3x - 4)^3} > 0 \end{cases}$ $\left[-1 < x < \dfrac{4}{3}\right]$

321 $\begin{cases} \dfrac{\frac{5}{2}x - 1}{x} \le \dfrac{8}{x + 2} \\ 2x^3 - 4x - x^2 + 3 < 0 \end{cases}$ $\left[-2 < x < -\dfrac{3}{2}\right]$

322 $\begin{cases} \dfrac{2 - x}{3x} + \dfrac{1 + x}{2x + 1} > \dfrac{x^2 + 8}{4x^2 + 2x} \\ x^3 - 8 \le 0 \\ \dfrac{3x + 4}{x - 2} < -\dfrac{3}{2}x \end{cases}$ $\left[-\dfrac{1}{2} < x < 0\right]$

323 $\begin{cases} \dfrac{x^2 + 1}{10} + \dfrac{x}{x - 6} \ge 0 \\ \dfrac{5}{1 - x} < \dfrac{8 - 5x}{x^2 - 1} \end{cases}$ $[x < -1 \vee 2 \le x \le 3 \vee x > 6]$

324 $\begin{cases} \dfrac{x^2 - 6x}{x^3 + x^2 - 2x} \le 0 \\ \dfrac{2}{x + 1} > \dfrac{1}{x - 3} \end{cases}$ $[1 < x < 3]$

325 $\begin{cases} \dfrac{2 + x}{x^2 - x} > \dfrac{1}{x + 2} \\ x^4 + 5x^2 - 36 \ge 0 \end{cases}$ $[x < -2 \vee x \ge 2]$

326 $\begin{cases} (x+1)(x+2)(x+3) > (x-1)(x-2)(x+3) \\ \dfrac{1}{2x^2 - 4x} \ge \dfrac{x - 2}{8x} \end{cases}$ $[2 < x \le 4]$

327 $\begin{cases} \dfrac{x^5 + x + 2}{x^2 + 5} > 0 \\ \dfrac{x - x^3}{2(x^3 - 4x + 3)} \le 0 \\ x^2 \le 0 \end{cases}$ $[x = 0]$

328 $\begin{cases} \dfrac{1 - 5x + 4x^2}{1 - 3x + 2x^2} > 1 \\ x^8 \ge -10^8 \end{cases}$ $\left[x < 0 \vee \dfrac{1}{2} < x < 1 \vee x > 1\right]$

329 $\begin{cases} \dfrac{x^2 - 1}{2} \ge \dfrac{2}{x^2 - 1} \\ \dfrac{x^2 + 1}{2} \ge \dfrac{2}{x^2 + 1} \end{cases}$ $[x \le -\sqrt{3} \vee x \ge \sqrt{3}]$