$$\frac{x\cdot(x+2)\cdot(x-1)^2}{(2x-3)}\geq 0$$

$$\begin{cases} x\cdot(x+2)(x-1)^2\geq 0 \\ 2x-3\geq 0 \end{cases} \quad \text{или} \quad \begin{cases} x(x+2)(x-1)^2\leq 0 \\ 2x-3\leq 0 \end{cases}$$

$$\begin{cases} x\geq 0 \\ x+2\geq 0 \\ 2x-3\geq 0 \end{cases} \text{ или } \begin{matrix} x\leq 0 \\ x+2\leq 0 \\ 2x-3\geq 0 \end{matrix} \quad \text{или} \quad \begin{cases} x\leq 0 \\ x+2\geq 0 \\ 2x-3\leq 0 \end{cases} \quad \text{или} \quad \begin{cases} x\geq 0 \\ x+2\leq 0 \\ 2x-3\leq 0 \end{cases}$$

$$\begin{cases} x\geq 0 \\ x\geq -2 \\ x\geq \frac{3}{2} \end{cases} \text{ или } \begin{cases} x\leq 0 \\ x\leq -2 \\ x\geq \frac{3}{2} \end{cases} \quad \text{или} \quad \begin{cases} x\leq 0 \\ x\geq -2 \\ x\leq \frac{3}{2} \end{cases} \text{ или } \begin{cases} x\geq 0 \\ x\leq -2 \\ x\leq \frac{3}{2} \end{cases}$$

$x\in\left[\frac{3}{2};+\infty\right)$ $\quad \varnothing \quad$ $x\in[-2;0]$ $\quad \varnothing$