Inéquations réductibles au second degré (2)

Résoudre

1) $\frac{3-2x}{x^2+6x-7} < 0$

2) $(4-9x^2)(-2x^2+3x-5) \geq 0$

3) $-\frac{5x^2(x^2+5)}{1-4x} \leq 0$

4) $\frac{-x^2+8x-16}{2-x} \geq 0$

5) $\frac{3(x-5)x}{x^2-x-1} \geq 0$

6) $\frac{1}{2}(-x^2+2x+3) \leq 0$

7) $\frac{x}{x-1} - \frac{4-2x}{x+3} \leq 2$

8) $\frac{x-1}{x+2} - \frac{x+3}{x-1} \geq -1$

9) $\frac{2}{2x+3} \leq x$

10) $\frac{8}{x} - \frac{5x}{x-6} < -5$

Solutions:

1) S = $]-7, 1[\cup]\frac{3}{2}, \longrightarrow$

2) S = $\longleftarrow, -\frac{2}{3}] \cup [\frac{2}{3}, \longrightarrow$

3) S = $\longleftarrow, \frac{1}{4}[$

4) S = $]2, \longrightarrow$

5) S = $\longleftarrow, \frac{1}{2}(1-\sqrt{5})[\cup [0, \frac{1}{2}(1+\sqrt{5})[\cup [5, \longrightarrow$

6) S = $\longleftarrow, -1] \cup [3, \longrightarrow$

7) S = $]-3, 1[\cup [2, 5]$

8) S = $\longleftarrow, -2[\cup [-1, 1[\cup [7, \longrightarrow$

9) S = $[-2, -\frac{3}{2}[\cup [\frac{1}{2}, \longrightarrow$

10) S = $]-\frac{24}{11}, 0[\cup]6, \longrightarrow$