

■ Inéquations réductibles au premier degré Série 2

Résoudre

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

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

$$3) \frac{x^2}{x+3} \geq x$$

$$4) \frac{2x^2-1}{x+3} > 2x$$

$$5) \frac{2x+7}{2x-1} \geq \frac{x+1}{x-1}$$

$$6) \frac{4x^2-1}{2x} \geq 2x+1$$

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

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

$$9) \frac{1-4x}{x} \leq 5$$

$$10) -3 \geq \frac{x-2}{x+1}$$

Solutions:

$$1) S = [1, 2 [\cup] 3, \rightarrow$$

$$2) S =] -\frac{1}{3}, \frac{2}{11} [$$

$$3) S =] -3, 0]$$

$$4) S =] -3, -\frac{1}{6} [$$

$$5) S =] \frac{1}{2}, 1 [\cup [\frac{3}{2}, \rightarrow$$

$$6) S = [-\frac{1}{2}, 0 [$$

$$7) S = \leftarrow, -\frac{8}{3}] \cup] -2, \rightarrow$$

$$8) S = \leftarrow, 0 [\cup] 3, \rightarrow$$

$$9) S = \leftarrow, 0 [\cup [\frac{1}{9}, \rightarrow$$

$$10) S =] -1, -\frac{1}{4}]$$