

Exercice 1

1. $2x = 0$

$(\Rightarrow) x = 0$

2. $x^2 - 9 = 0$

$(\Rightarrow) x^2 = 9$

$(\Rightarrow) x = 3 \text{ ou } x = -3$

$S = \{-3; 3\}$

3. $4x^2 = 3x$

$(\Rightarrow) 4x^2 - 3x = 0$

$(\Rightarrow) x(4x - 3) = 0$

$(\Rightarrow) x = 0 \text{ ou } 4x - 3 = 0$

$(\Rightarrow) x = \frac{3}{4}$

$S = \left\{0; \frac{3}{4}\right\}$

4. $x^2 - 7 = 0$

$(\Rightarrow) x^2 = 7$

$(\Rightarrow) x = -\sqrt{7} \text{ ou } x = \sqrt{7}$

$S = \{-\sqrt{7}; \sqrt{7}\}$

5. $(x+1)x + (x+1)(x+3) = 0$

$(\Rightarrow) (x+1)(x + x + 3) = 0$

$(\Rightarrow) (x+1)(2x+3) = 0$

$(\Rightarrow) x = -1 \text{ ou } 2x = -3$

$(\Rightarrow) x = -\frac{3}{2}$

$S = \left\{-\frac{3}{2}; -1\right\}$

6.

$(x-2) - (x-2)(2x-7) = 0$

$(\Rightarrow) (x-2)(1 - (2x-7)) = 0$

$(\Rightarrow) (x-2)(1 - 2x + 7) = 0$

$(\Rightarrow) (x-2)(-2x + 8) = 0$

$(\Rightarrow) x = 2 \text{ ou } x = \frac{-8}{-2}$

$S = \{2; 4\}$

exercice 2

1.

$$x \neq -1$$

$$\frac{3x-2}{x+1} = 0$$

$$\Leftrightarrow 3x - 2 = 0$$

$$\Leftrightarrow x = \frac{2}{3}$$

2. $x \neq -\frac{1}{2}$

$$\frac{x+6}{2x+1} = 0$$

$$\Leftrightarrow x + 6 = 0$$

$$\Leftrightarrow x = -6$$

3.

$$x \neq 2$$

$$\frac{2x-1}{x-2} = 0$$

$$\Leftrightarrow 2x - 1 = 0$$

$$\Leftrightarrow x = \frac{1}{2}$$

4.

$$x \neq 2 \text{ et } x \neq -2$$

$$x - 2 = 0$$

$$\Leftrightarrow x = \underline{2}$$

Pas de Solution