

Corrections

Devoir de préparation au contrôle

Corrections Savoir Ta. 1

$$\begin{array}{llllll}
 1. & A = 1 & B = \frac{9}{14} & C = \frac{6}{11} & D = \frac{16}{3} & E = \frac{5}{3} \\
 2. & A = \left(\frac{2}{3} - \frac{3}{2}\right)\left(1 + \frac{7}{6}\right) & B = \frac{4}{7} + \frac{2}{7} \times \frac{14}{18} & C = \frac{6}{7} \div 3 + 2 \\
 & = \left(\frac{4}{6} - \frac{9}{6}\right)\left(\frac{6}{6} + \frac{7}{6}\right) = -\frac{5}{6} \times \frac{13}{6} = -\frac{65}{36} & = \frac{4}{7} + \frac{2}{9} = \frac{50}{63} & = \frac{2}{7} + \frac{14}{7} = \frac{16}{7}
 \end{array}$$

Corrections Savoir Ta. 2

$$\begin{array}{llll}
 3 - \frac{x}{2} = 1 & 3x - 1 = 11 & 2x - 7 = 0 & -6x = 0 \\
 \frac{x}{2} = 2 & 3x = 12 & 2x = 7 & x = 0 \\
 x = 4 & x = 4 & x = \frac{7}{2} & \mathbf{S} = \{\mathbf{0}\} \\
 \mathbf{S} = \{\mathbf{4}\} & \mathbf{S} = \{\mathbf{4}\} & \mathbf{S} = \{\mathbf{3}, \mathbf{5}\} & \\
 \\
 5 - 3x = 2 - 6x & 7t - 1 = t & 3a + 1 = 0,5a - 3 \\
 5 + 3x = 2 & 6t - 1 = 0 & 3a - 0,5a = -3 - 1 \\
 3x = -3 & 6t = 1 & 2,5a = -4 \\
 x = -1 & t = \frac{1}{6} & a = -4 \div 2,5 = 1,6 \\
 \mathbf{S} = \{-\mathbf{1}\} & \mathbf{S} = \left\{\frac{\mathbf{1}}{\mathbf{6}}\right\} & \mathbf{S} = \{\mathbf{1}, \mathbf{6}\}
 \end{array}$$

Corrections Savoir Ta. 3

$$\begin{array}{lll}
 5x^2(8 - x) = 0 & 2(x + 9)(4 + 3x) = 0 & 20 - s^2 = -5 \\
 x^2 = 0 \text{ ou } 8 - x = 0 & x + 9 = 0 \text{ ou } 4 + 3x = 0 & s^2 = 25 \\
 \text{Il y a 2 solutions : } x_1 = 0 \text{ et } x_2 = 8 & \text{Il y a 2 solutions : } x_1 = -9 \text{ et } x_2 = -\frac{4}{3} & \text{Il y a 2 solutions :} \\
 \mathbf{S} = \{\mathbf{0}; \mathbf{8}\} & \mathbf{S} = \left\{-\mathbf{9}; -\frac{\mathbf{4}}{\mathbf{3}}\right\} & s_1 = 5 \text{ et } s_2 = -5 \\
 \\
 x^2 = 100 & 12 = h^2 & \mathbf{S} = \{-\mathbf{5}; \mathbf{5}\} \\
 2 \text{ solutions :} & 2 \text{ solutions :} & \\
 x_1 = 10 \text{ et } x_2 = -10 & h_1 = \sqrt{12} \text{ et } h_2 = -\sqrt{12} & \\
 \mathbf{S} = \{-\mathbf{10}; \mathbf{10}\} & \mathbf{S} = \{-\sqrt{12}; \sqrt{12}\} &
 \end{array}$$

Corrections Savoir Ta. 4

x	$-\infty$	2	$+\infty$
$f(x)$	+	0	-

x	$-\infty$	-4	$+\infty$
$g(x)$	-	0	+

x	$-\infty$	0	$+\infty$
$h(x)$	+	0	-

x	$-\infty$	$\frac{6}{7}$	$+\infty$
$b(x)$	+	0	-

x	$-\infty$	$+\infty$
$a(x)$	-	

Corrections Savoir Ta. 5

x	$-\infty$	-3	6	$+\infty$	
4	$+$	$ $	$+$	$ $	$+$
$5x - 30$	$-$	$ $	$-$	0	$+$
$9 + 3x$	$-$	0	$+$	$ $	$+$
$f(x)$	$+$	$\mathbf{0}$	$-$	$\mathbf{0}$	$+$

x	$-\infty$	-5	1	$+\infty$
$5 - 5x$	$+$	$ $	$+$	$0 \quad -$
$5 + x$	$-$	0	$+$	$ \quad +$
$g(x)$	$-$	0	$+$	0 $-$

x	$-\infty$	-1	$1,5$	$+\infty$
-3	$-$	$ $	$-$	$-$
$x + 1$	$-$	0	$+$	$+$
$3 - 2x$	$+$	$ $	$+$	0
$h(x)$	$+$	$\mathbf{0}$	$-$	$\mathbf{0}$