

Fiche résolution d'équation 2 3eme semaine 10

7 Résolvez les équations suivantes.

- a.** $3x + 7 = -13 - 2x$ **d.** $2x - 9 = (5x + 7) \times (-3)$
b. $3(2x - 3) = 27$ **e.** $0,5x - 2,6 = 3x + 1,4$
c. $6(x - 3) = 3x$ **f.** $8x = (5x - 3) \times (-0,2)$

$3x+7 = -13-2x$ $3x+7-7 = -13-2x-7$ $3x=-20-2x$ $3x+2x = -20-2x+2x$ $5x=-20$ $X=-20 :5$ $X= -4$	$3(2x-3) = 27$ $3*2x-3*3 = 27$ $6x-9 = 27$ $6x-9+9 = 27+9$ $6x= 36$ $X= 36 :6$ $X= 6$	$6(x-3) = 3x$ $6*x-6*3 = 3x$ $6x-18 = 3x$ $6x-18+18 = 3x+18$ $6x=3x+18$ $6x-3x = 3x-3x+18$ $3x = 18$ $X= 18 :3$ $X=6$
$2x-9 = (5x+7)*(-3)$ $2x-9 = 5x*(-3)+7*(-3)$ $2x-9 = -15x-21$ $2x-9+9 = -15x-21+9$ $2x=-15x-12$ $2x+15x = -15x+15x-12$ $17x=-12$ $X= -12 :17$	$0,5x-2,6 = 3x+1,4$ $0,5x-2,6+2,6=3x+1,4+2,6$ $0,5x = 3x+4$ $0,5x-3x = 3x-3x+4$ $-2,5x = 4$ $X=4 : (-2,5)$ $X= -1,6$	$8x = (5x-3)*(-0,2)$ $8x= 5x *(-0,2)+(-3)*(-0,2)$ $8x= -1x+0,6$ $8x+1x = -1x+1x+0,6$ $9x = 0,6$ $X = 0,6 :9$

13 Résolvez les équations suivantes.

a. $9(x + 7) = 27(x + 1)$

b. $18(5x - 3) = 18(2x + 1)$

c. $5(x + 4) = -3(x - 2)$

d. $6x - 3 = 3(x + 6)$

$9(x+7) = 27(x+1)$ $9x+9*7 = 27x+27*1$ $9x+63 = 27x+27$ $9x+63-63 = 27x+27-63$ $9x = 27x-36$ $9x-27x = 27x-27x-36$ $-18x = -36$ $X = -36 : (-18)$ $X = 2$	$18(5x-3) = 18(2x+1)$ $18*5x-18*3 = 18*2x+18*1$ $90x-54 = 36x+18$ $90x-54+54 = 36x+18+54$ $90x = 36x+72$ $90x-36x = 36x-36x+72$ $54x = 72$ $X = 72 : 54$
$5(x+4) = -3(x-2)$ $5*x+5*4 = -3*x + (-3)*(-2)$ $5x+20 = -3x+6$ $5x+20-20 = -3x+6-20$ $5x = -3x-14$ $5x+3x = -30+30-14$ $8x = -14$ $X = -14 : 8$ $X = -1,75$	$6x-3 = 3(x+6)$ $6x-3 = 3*x+3*6$ $6x-3 = 3x+18$ $6x-3+3 = 3x+18+3$ $6x = 3x+21$ $6x-3x = 3x-3x+21$ $3x = 21$ $X = 21 : 3$ $X = 7$