Fiche d'entraînement : systèmes (graphiques)

Résoudre graphiquement les systèmes suivants :

1) $\begin{cases} 3x+2y=0 \\ 2x-4y=-16 \end{cases}$

2) $\begin{cases} -2x+4y=-18 \\ 5x+3y=-7 \end{cases}$

3) $\begin{cases} 2x+5y=-6 \\ -2x+y=-6 \end{cases}$

4) $\begin{cases} 3x+4y=-15 \\ 2x-3y=7 \end{cases}$

5) $\begin{cases} -x+2y=8 \\ 3x-4y=-16 \end{cases}$

Solutions

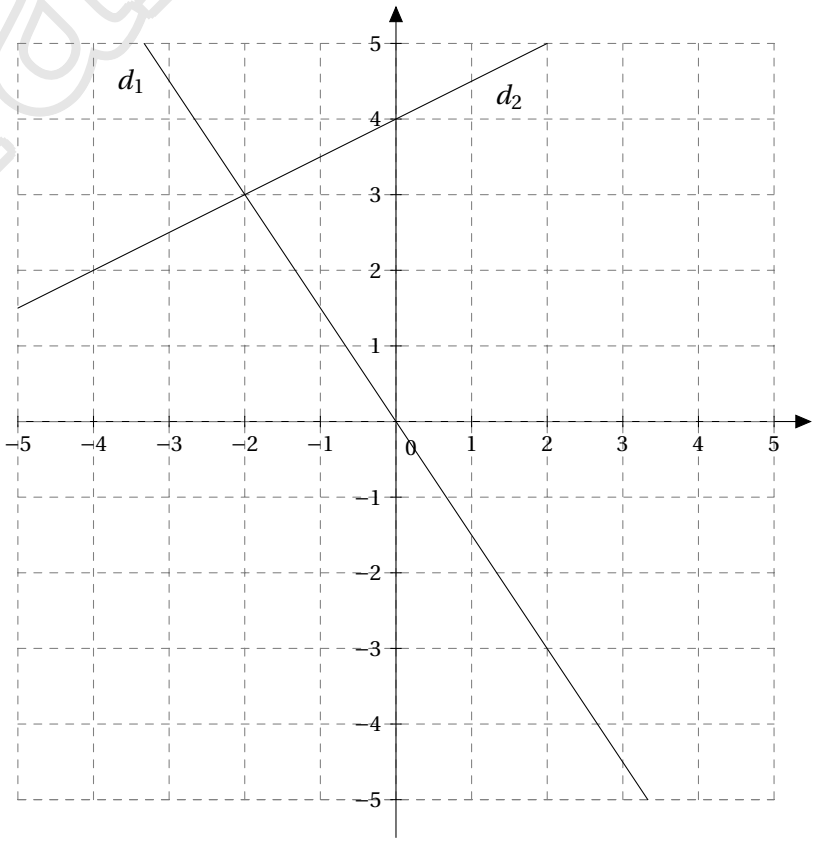
1) $d_1 : y = -\frac{3}{2}x$

x	0	−2
y	0	3

$d_2 : y = \frac{1}{2}x + 4$

x	−4	0
y	2	4

$S = \{(-2\ ;\ 3)\}$



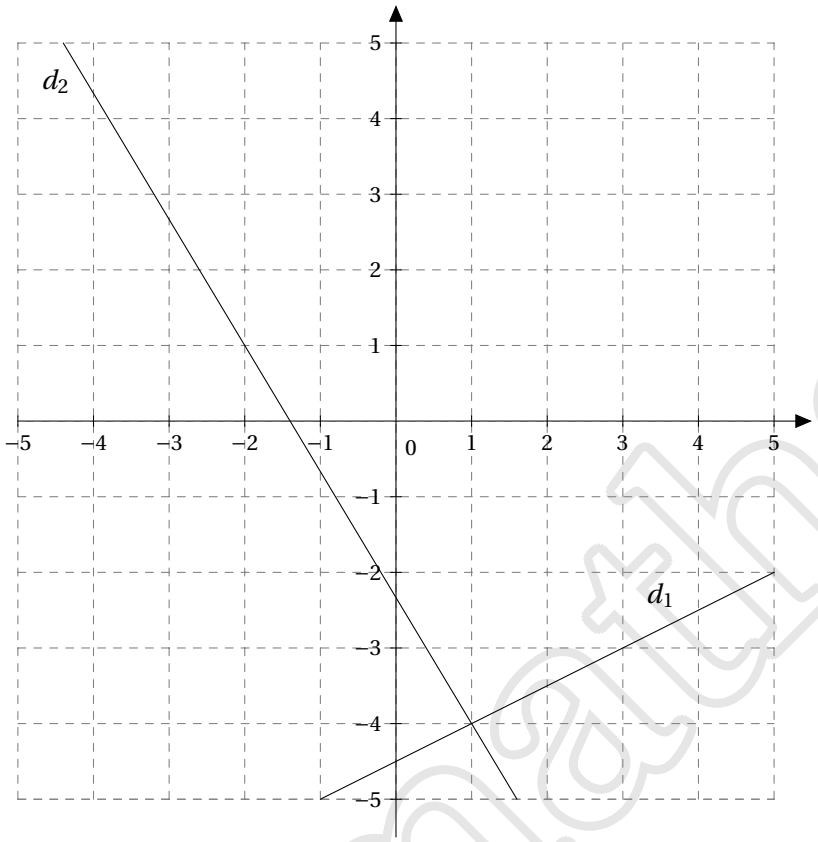
2) $d_1 : y = \frac{1}{2}x - \frac{9}{2}$

x	1	3
y	−4	−3

$d_2 : y = -\frac{5}{3}x - \frac{7}{3}$

x	−2	1
y	1	−4

$S = \{(1\ ;\ -4)\}$



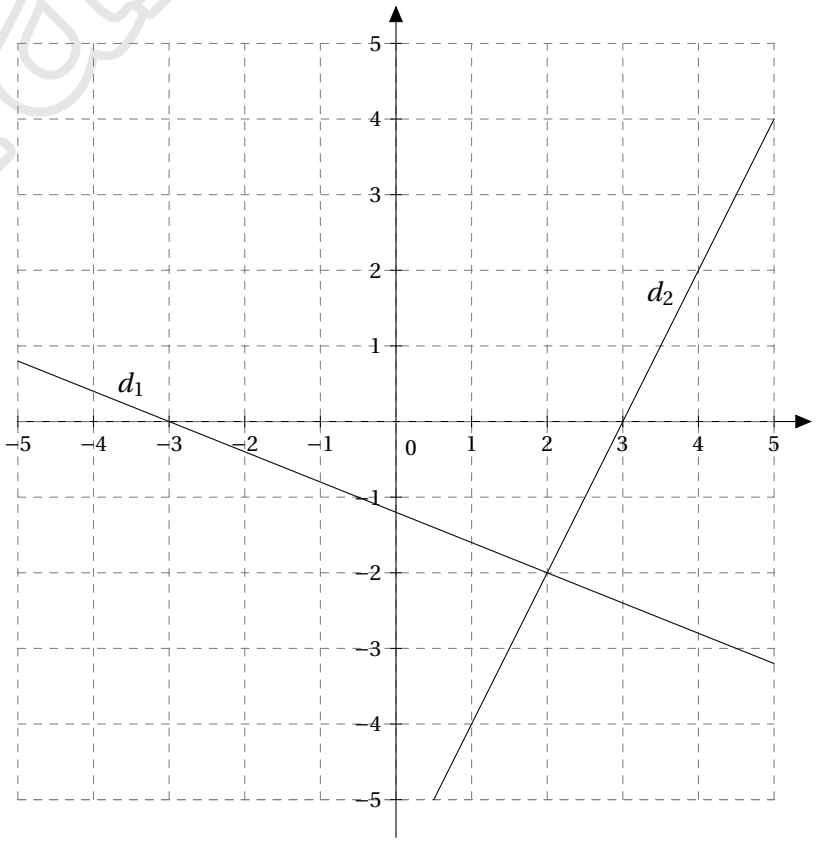
3) $d_1 : y = -\frac{2}{5}x - \frac{6}{5}$

x	−3	2
y	0	−2

$d_2 : y = 2x - 6$

x	1	3
y	−4	0

$S = \{(2\ ;\ -2)\}$



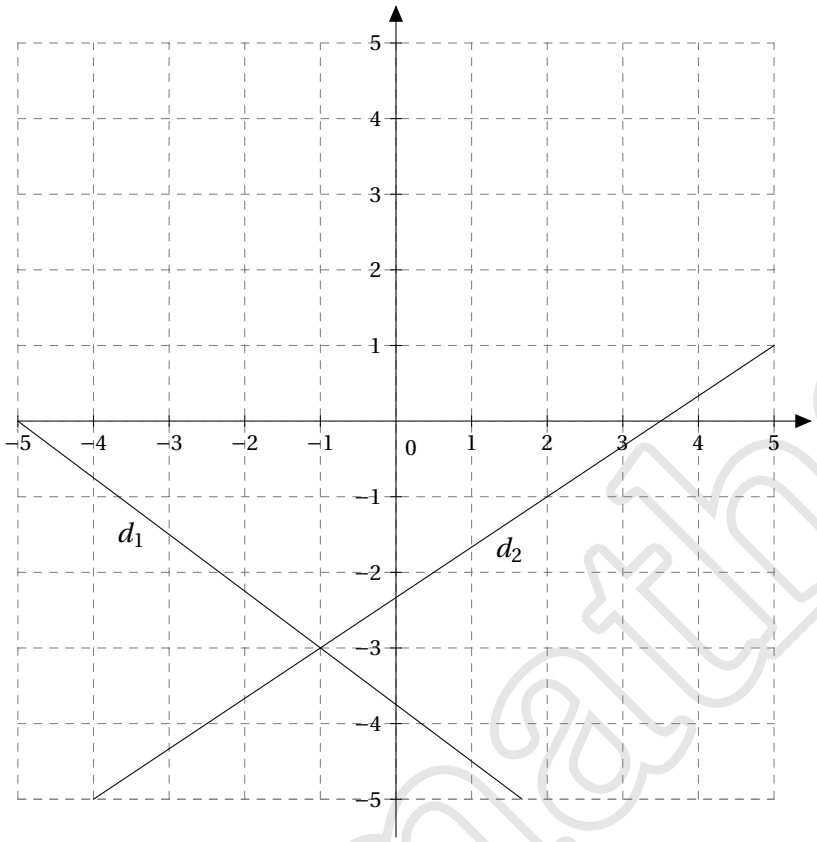
4) $d_1 : y = -\frac{3}{4}x - \frac{15}{4}$

x	−1	−5
y	−3	0

$d_2 : y = \frac{2}{3}x - \frac{7}{3}$

x	2	5
y	−1	1

$S = \{(-1\ ;\ -3)\}$



5) $d_1 : y = \frac{1}{2}x + 4$

x	−2	−4
y	3	2

$d_2 : y = \frac{3}{4}x + 4$

x	−4	0
y	1	4

$S = \{(0\ ;\ 4)\}$