Valeur absolue

▶ Exercice n°1

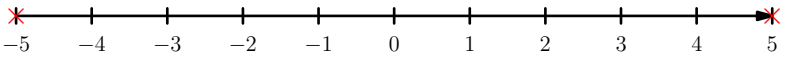
$\sqrt{2}$; $\frac{1}{3}$; $\frac{3}{4}$; $4-\sqrt{2}$; $-\frac{1}{2}+\sqrt{3}$; $2-\frac{\pi}{4}$; $\frac{2\pi}{3}$; $-\sqrt{2}+\sqrt{3}$

▶ Exercice n°2

$f(0)=|0-4|-|0+1|=|-4|-|1|=4-1=3$
$f(-2)=|-4-4|-|-6+1|=|-8|-|-5|=8-5=3$
$f(8)=|16-4|-|24+1|=|12|-|25|=12-25=-13$

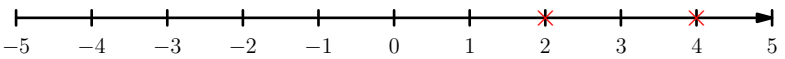
▶ Exercice n°3

$|x|=5 \Leftrightarrow d(x,0)=5$



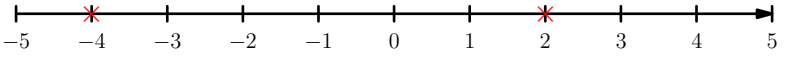
▶ Exercice n°4

$|x-3|=1 \Leftrightarrow d(x,3)=1$



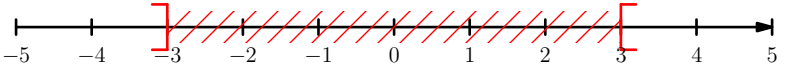
▶ Exercice n°5

$|x+1|=3 \Leftrightarrow d(x,-1)=3$



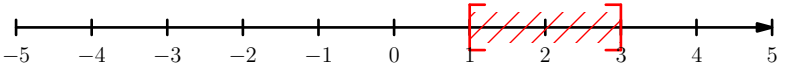
▶ Exercice n°6

$|x|<3 \Leftrightarrow d(x,0)<3$



▶ Exercice n°7

$|x-2|\leqslant 1 \Leftrightarrow d(x,2)\leqslant 1$



▶ Exercice n°8

$|x+1|\geqslant 2 \Leftrightarrow d(x,-1)\geqslant 2$