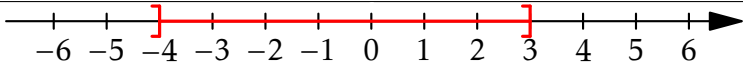
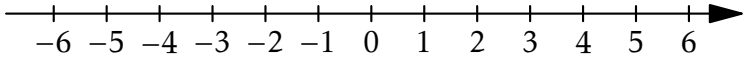
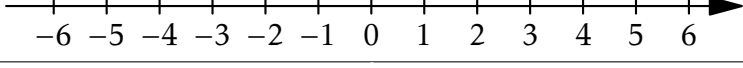
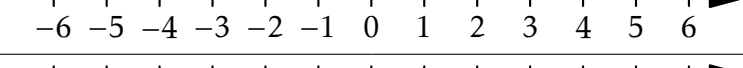
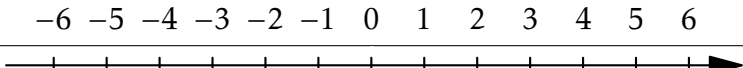
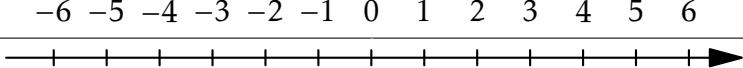
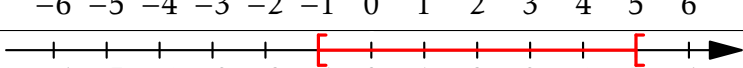
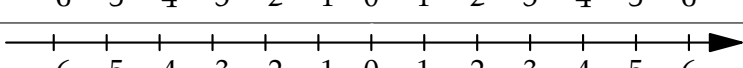
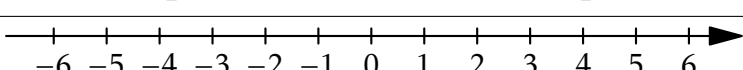
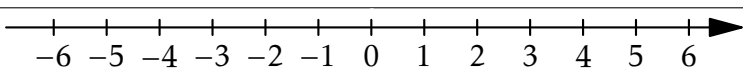
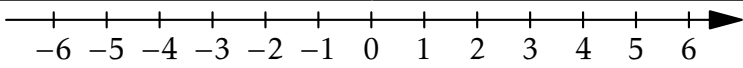
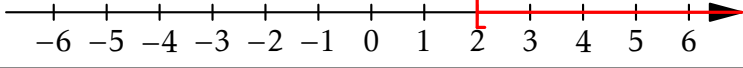
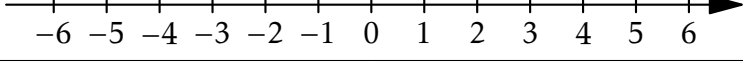
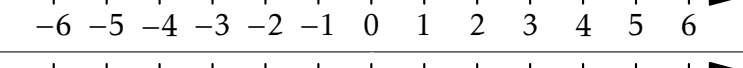
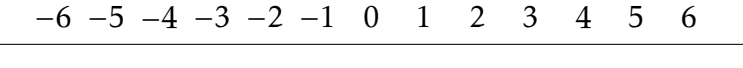
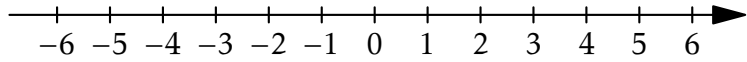
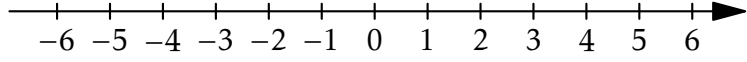
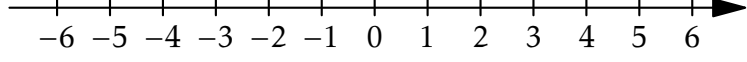


Exercices sur les intervalles

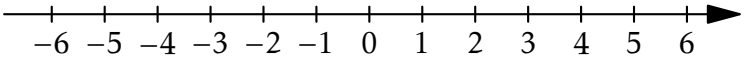
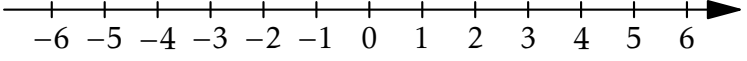
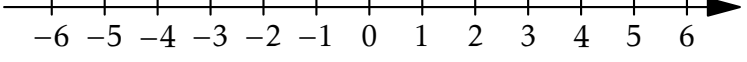
EXERCICE 1 : Compléter le tableau ci-dessous :

Inégalité	Représentation	Intervalle
$-4 < x \leq 3$		$] - 4; 3]$
$-3 \leq x < 1$		
$0 \leq x \leq 2$		
$-5 < x < -2$		
		$[2; 4]$
		$[-3; 0[$
		$] - 5; 1]$
		
$2 \geq x$		
$x < -3$		
$x \geq 4$		
$1 \leq x$		
		
		$] - 1; +\infty[$
		$] - \infty; -2]$
		$] - \infty; 0[$

EXERCICE 2 : Déterminer l'intersection des intervalles suivants :

Intersection	Représentation	Intervalle
$[-4;5] \cap [2;+\infty[$		
$] -\infty;3] \cap]2;4[$		
$[5;+\infty[\cap [-3;5[$		

EXERCICE 3 : Déterminer l'union des intervalles suivants :

Union	Représentation	Intervalle
$[-4;5] \cup [3;6]$		
$] -\infty;3] \cup]2;4[$		
$[5;+\infty[\cup [-3;5[$		

EXERCICE 4 : Résoudre dans $\mathbb{R}$ les inéquations suivantes :

- | | | |
|-----------------------|----------------------------------|--------------------------------|
| 1) $2x + 1 \leq 5$ | 2) $5x - 1 > 3x + 2$ | 3) $2(x + 1) < 5x + 1$ |
| 4) $7 \geq -3x + 1$ | 5) $4(x + 2) > 3(x - 1)$ | 6) $7(x + 2) \leq 5(6 - x)$ |
| 7) $-7x + 1 > 3x + 5$ | 8) $3(-x + 5) \leq 2x + 1$ | 9) $2(x - 3) \geq 8 - 3x$ |
| 10) $x - 2 < -11$ | 11) $4x + 12 \leq -8$ | 12) $-6 - 3x < 4$ |
| 13) $2x \geq 6x - 13$ | 14) $x^2 + 9x - 5 > x^2 + x + 3$ | 15) $\frac{3x + 2}{2} \geq -3$ |