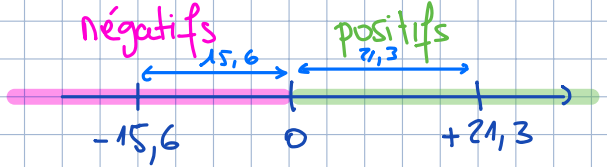
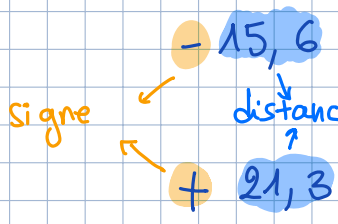
Chapitre 4 : Nombres relatifs

Anatomie d'un nombre relatif :





l'opposé de $-15,6$ est $+15,6$
l'opposé de $+21,3$ est $-21,3$

Addition de nombres relatifs :

$A = (-7) + (-3)$ $\quad B = (+7) + (+3)$ $\quad C = (-7) + (+3)$

$= -10$ $\quad = +10$ $\quad = -4$

$A = -7 - 3 = -10$ $\quad B = 7 + 3 = 10$ $\quad C = -7 + 3 = -4$

Soustraction des nombres relatifs :

⚠ Soustraire c'est additionner l'opposé

$D = (-7) - (+3)$ $\quad E = (+7) - (+3)$ $\quad F = (-7) - (-3)$

$= (-7) + (-3)$ $\quad = (+7) + (-3)$ $\quad = (-7) + (+3)$

$= -10$ $\quad = +4$ $\quad = -4$

$D = -7 - 3 = -10$ $\quad E = 7 - 3 = 4$ $\quad F = -7 - (-3) = -4$

Ex 1 p 4

1 Donner le signe des sommes suivantes.

A = 2 + 7 : +	B = −7 + (−11) : −
C = −2 + 5 : +	D = 3 + (−5) : −
E = −8 + 3 : −	F = 0 + (−4) : −

2 Calculer.

A = 9 + 11 = 20	B = −3 + (−2) = −5
C = −3 + 8 = 5	D = 5 + (−5) = 0
E = 4 + (−9) = −5	F = −6 + 2 = −4

3 Calculer.

A = −8 + 34 = + 26	B = 0 + (−7) = −7
C = −1,1 + (−1,2) = −2,3	D = −3,5 + 1,4 = −2,1
E = 1,3 + 2,7 = 4	F = −2,5 + (−2,5) = −5

Ex 6 p 5

10 Transformer les soustractions en addition.

A = 3 − (−8) = 3 + (+8) = 11
B = −7 − 4 = −7 + (−4) = −11
C = 0 − (−11) = 0 + (+11) = 11
D = −9 − (−4) = −9 + (+4) = −5

11 Calculer.

A = 2 − (−3) = 2 + (+3) = 5
B = −7 − 8 = −7 + (−8) = −1
C = −6 − (−6) = −6 + (+6) = 0
D = 13 − 17 = 13 + (−17) = −4
E = −32 − (−10) = −32 + (+10) = −22

12 Calculer.

A = 12 − (−25) = 12 + (+25) = 37
B = −7 − 7 = −7 + (−7) = −14
C = 3 − 10 = 3 + (−10) = −7
D = −7 − (−13) = −7 + (+13) = 6
E = −20 − 12 = −20 + (−12) = −32
F = 15 − (−15) = 15 + (+15) = 30
G = 9 − 5 = 9 + (−5) = 4

13 Calculer.

A = −3,1 − 2,7 = $-3,1+(-2,7)=-5,8$

B = 5,4 − (−7,3) = $5,4+(+7,3)=12,7$

C = 2,9 − 8,5 = $2,9+(-8,5)=-5,6$

D = −7,1 − (−11,3) = $-7,1+(+11,3)=4,2$

E = 8,5 − 4,7 = $8,5+(-4,7)=3,8$

F = −32,3 − (−0,9) = $-32,3+(+0,9)=-31,4$

G = −7,1 − 12,3 = $-7,1+(-12,3)=-19,4$

14 Calculer.

A = −3 − (−8) − 14

A = $-3+(+8)+(-14)$

A = $5+(-14)$

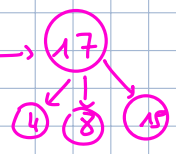
A = -9

B = 2 − (−12) − 10

B = $2+(+12)+(-10)$

B = $14+(-10)$

B = 4



$(-4)+(-4)+(-4)=$

$3\times(-4)=$

$-3\times(-4)=$

$2+(-5)=-3$

$2-(-5)=2+(+5)=7$

$2-5=2+(-5)=-3$