

Exercice I /4

$$A = (-3) \times (-11) = 33 \quad 0,5 \quad B = -24 \quad 0,5 \quad C = -6 \quad 0,5 \quad D = 40 \quad 0,5$$

$$E = -30 \quad 0,5 \quad F = 40 \quad 0,5 \quad G = -0,12 \quad 0,5 \quad H = -0,002 \quad 0,5$$

Exercice II /4,5

0,5 A = négatif car 3 éléments négatifs et 3 impair

0,5 B = négatif car 3 éléments négatifs et 3 impair

0,5 C = positif car 8 éléments ~~positif~~ négatif et 4 ~~positifs~~ pairs

Exercice III /3

$$1 \quad A = -2 \times 5 \times (-1) \times 6 \times (-2) = (-10) \times (-1) \times (-12) = -120$$

$$1 \quad B = (-10) \times (-3) \times 4 \times (-1) \times (-2) = (-10) \times (-12) \times (+2) = (-10) \times (-24) = +240$$

$$1 \quad C = (-1) \times (-2) \times (-2) \times (-5) \times (-10) = (+2) \times (+10) \times (-10) = -200$$

Exercice IV /4,5

$$A = +30 - (+20) = 30 - 20 = 10 \quad 0,5$$

$$B = -2 + 3 \times (-6) + 6 = -2 - 18 + 6 = -20 + 6 = -14 \quad 0,5$$

$$C = -4 + 4 \times (2 + (-5) \times (-1)) = -4 + 4 \times (2 + 5) = -4 + 4 \times (7) \quad 1$$

$$= -4 + 28 = 24$$

$$D = (-3 \times 2 + 1) \times (12 - (4) \times (-2)) = (-6 + 1) \times (12 + 8) \quad 1$$

$$= (-5) \times (20) = -100$$

$$E = -2 \times (1+3) - 3 \times (14 - 2 \times (1+7)) = -6 - 3 \times (14 - 14) = -6 - 3 \times 0 \quad 1$$

$$= -6$$

$$F = (-14 \div 7) + (-5 \times (-3)) = (-2) + 15 = +13 \quad 0,5$$

Exercice V /3

$$A = +3 \quad 0,5 \quad B = -9 \quad 0,5 \quad C = -3 \quad 0,5 \quad D = -5 \quad 0,5 \quad E = +0,05 \quad 0,5 \quad F = +12 \quad 0,5$$

Exercice VI /4

$$A = +5 + 9 = +14 \quad 0,5$$

$$B = -6 - 3 = -9 \quad 0,5$$

$$C = +4 - 5 = -1 \quad 0,5$$

$$D = -12 + 11 = -1 \quad 0,5$$

$$E = +12 - 5 + 2 - 6 - 11 - 9 \quad \cancel{+12} = +2 - 31 = -29 \quad 1$$

$$F = \cancel{+3} - 5 + 4 - 12 + 13 \quad \cancel{+3} = -17 + 17 = 0 \quad 1$$