Correction DS2

Exercice 1

- $\frac{1}{4} + \frac{5}{4} = \frac{6}{4} = \frac{3 \times 2}{2 \times 2} = \frac{3}{2}$

- $\frac{-3}{5} + \frac{11}{5} = \frac{8}{5}$

- $\frac{2}{3} + \frac{4}{5}$

$= \frac{2 \times 5}{3 \times 5} + \frac{4 \times 3}{5 \times 3}$

$= \frac{10}{15} + \frac{12}{15}$

$= \frac{22}{15}$

- $\frac{-3}{21} + \frac{5}{7}$

$= \frac{-3}{21} + \frac{5 \times 3}{7 \times 3}$

$= \frac{-3}{21} + \frac{15}{21}$

$= \frac{12}{21} = \frac{3 \times 4}{3 \times 7} = \frac{4}{7}$

- $5 - \frac{2}{3}$

$= \frac{5}{1} - \frac{2}{3}$

$= \frac{5 \times 3}{1 \times 3} - \frac{2}{3}$

$= \frac{15}{3} - \frac{2}{3}$

$= \frac{13}{3}$

- $\frac{-2}{7} - \frac{-4}{11}$

$= \frac{-2 \times 11}{7 \times 11} - \frac{-4 \times 7}{11 \times 7}$

$= \frac{-22}{77} - \frac{-28}{77}$

$= \frac{-22}{77} + \frac{28}{77}$

$= \frac{6}{77}$

Exercice 2

$-8 - 4 \times 3$

$= -8 - 12$

$= -20$

$40 + 2 \times (-3) \div (-4)$

$= 40 + -6 \div (-4)$

$= 40 + 1,5$

$= 41,5$

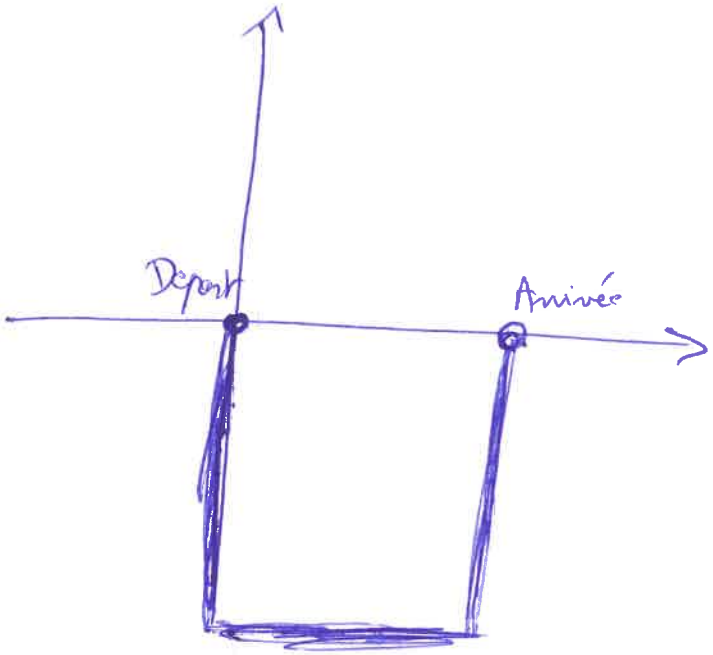
$2 \times (-20) - 5 \times (-3)$

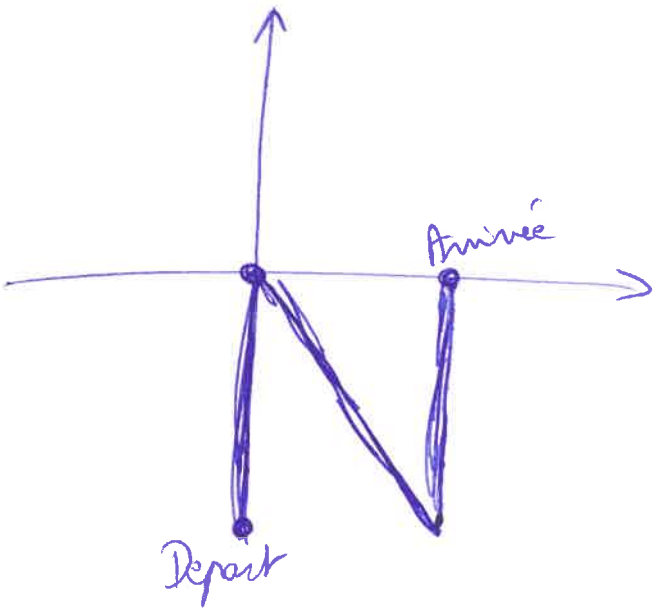
$= -40 + 15$

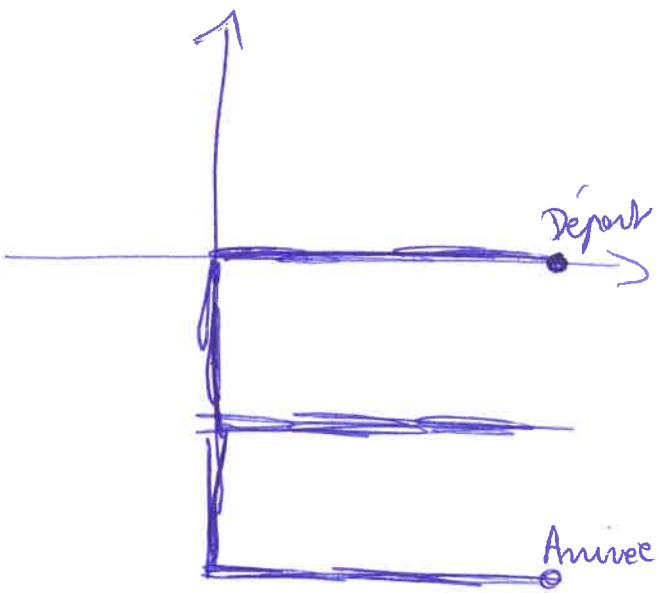
$= -25$

$\frac{8 + 3 \times (-4)}{-40 - 20 - 40} = \frac{-4}{-100} = +0,04$

Exercice 3.







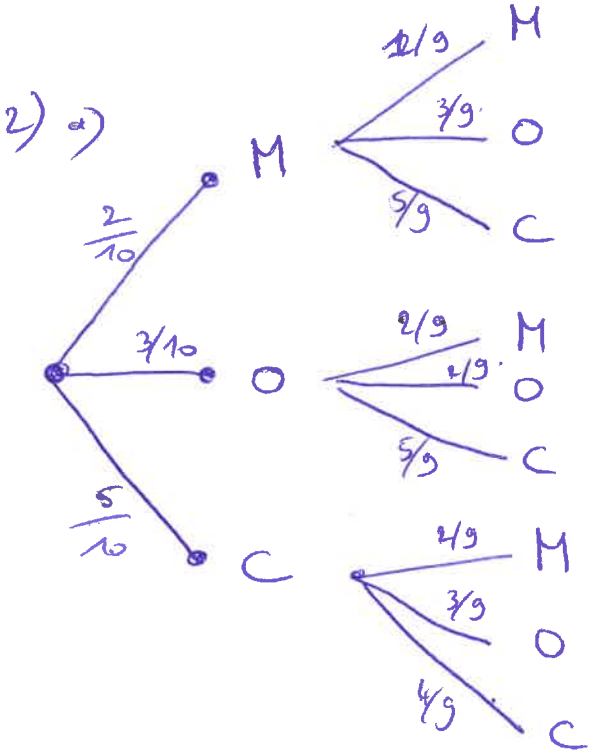
Exercice 4.

1) $\mathbb{P}(M) = \frac{2}{10}$

$\mathbb{P}(O) = \frac{3}{10}$

$\mathbb{P}(C) = \frac{5}{10}$.

2) a)



b)

$\mathbb{P}$(2 bonbons menthe) $= \frac{2}{10} \times \frac{1}{9} = \frac{2}{90}$

c) $\mathbb{P}(M;O) = \frac{6}{90}$

$\mathbb{P}(M,C) = \frac{10}{90}$

$\mathbb{P}(O;M) = \frac{6}{90}$

$\mathbb{P}(O;C) = \frac{15}{90}$

$\mathbb{P}(C;M) = \frac{10}{90}$

$\mathbb{P}(C;O) = \frac{15}{90}$

$\frac{62}{90}$

$\mathbb{P}$(2 goûts différents) $= \frac{62}{90}$.