

Exercice 20 : exercice à résoudre en anglais

Let's keep our head ! 

a. Solve the following system of equations :

$$(S) : \begin{cases} 5X + 4Y = 15 \\ 3X + Y = 16 \end{cases}$$

b. By writing $X = \frac{1}{x}$ and $Y = \frac{1}{y}$, give the conditions of existence of X and Y, and then solve the system (S') :

$$(S') : \begin{cases} \frac{5}{x} + \frac{4}{y} = 15 \\ \frac{3}{x} + \frac{1}{y} = 16 \end{cases}$$