

Question 3

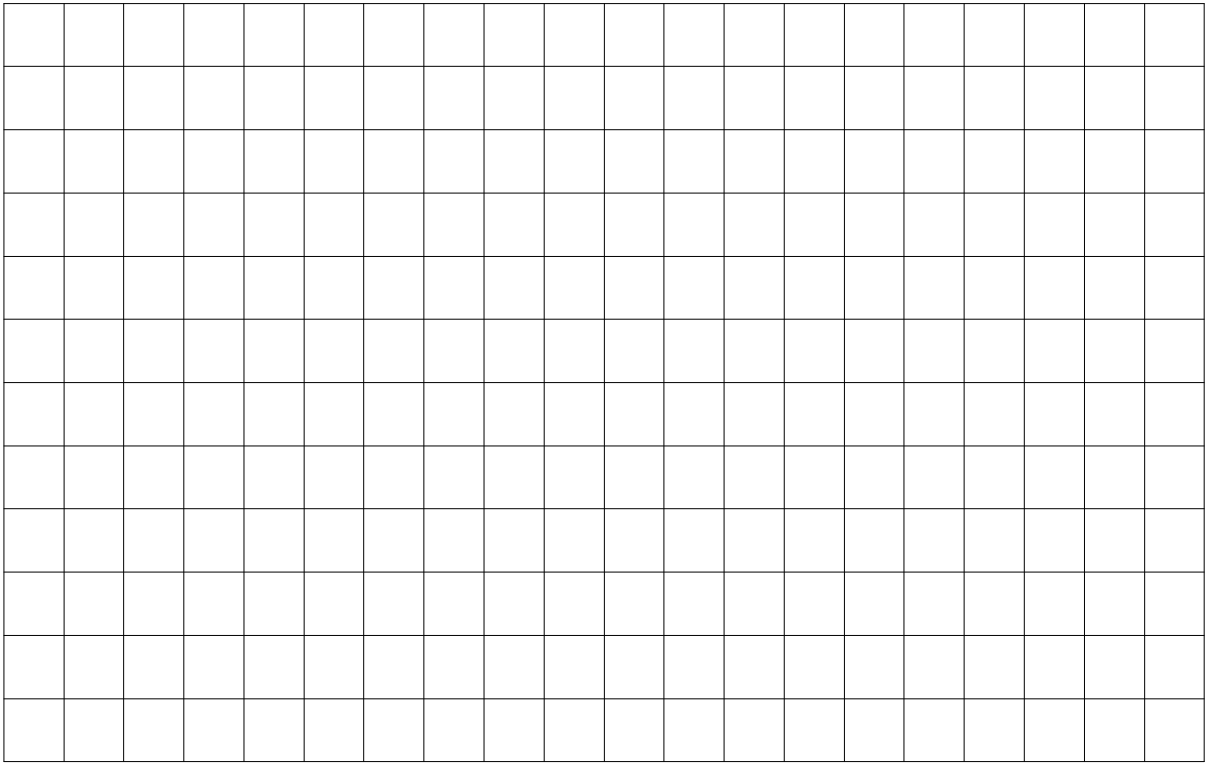
32 (=7+9+8+8) points

Calculer et simplifier autant que possible.

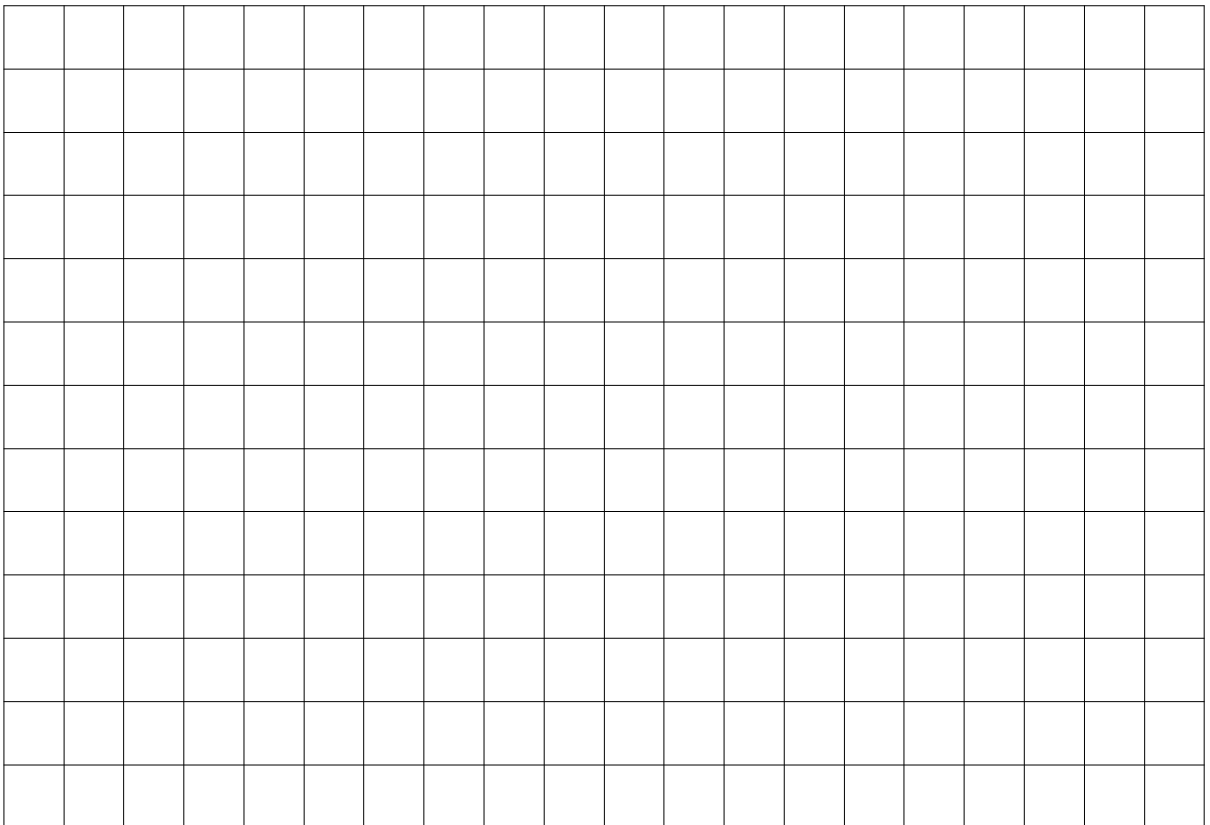
$$(1) \quad A = \frac{2x^2 + 2x}{10x^2 - 15x} - \frac{2x - 3}{9 - 12x + 4x^2}$$

$$(2) \quad B = \frac{x + 4}{2x^3 - 4x^2} - \frac{x - 4}{2x^3 + 4x^2} + \frac{x + 4}{4 - x^2}$$

$$(3) \quad C = \frac{54 - 6x^2}{10x - 35x^2} \cdot \frac{3x^2 - 18x + 27}{49x^2 - 28x + 4}$$



$$(4) \quad D = \frac{6b - 3a}{\frac{1}{b} - \frac{4}{a} + \frac{4b}{a^2}}$$



Question 4

13 (=5+8) points

(1) Calculer et simplifier $E = \frac{\frac{1}{x} - x}{\frac{(x+1)^2}{x^2}}$.

(2) Calculer ensuite E a) si $x = 3^{-2}$ et b) si $x = -\frac{3}{5}$.

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