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α) $f\left(\frac{1}{2}\right) = \frac{1}{2} + \frac{1}{\frac{1}{2}} = \frac{1}{2} + 2 = \frac{5}{2}$

$f(1) = 1 + \frac{1}{1} = 1 + 1 = 2$

$f(2) = 2 + \frac{1}{2} = \frac{5}{2}$

άρα: $A = f\left(\frac{1}{2}\right) + f(1) - f(2) = \frac{5}{2} + 2 - \frac{5}{2} = 2$

β) $f(x) = \frac{5}{2} \iff x + \frac{1}{x} = \frac{5}{2} \overset{\cdot 2x}{\underset{x \neq 0}{\iff}} 2x^2 + 2 = 5x \iff$

$\iff 2x^2 - 5x + 2 = 0 \overset{(\alpha)}{\iff} x = \frac{1}{2}$ ή $x = 2$

αφού $f\left(\frac{1}{2}\right) = \frac{5}{2}$ και $f(2) = \frac{5}{2}$