

ΠΡΑΞΕΙΣ ΠΟΛΥΩΝΥΜΩΝ

1. Να κάνετε τις πράξεις

$$\begin{array}{llll} \text{i)} \frac{1}{\alpha} + \frac{1}{\beta} & \text{ii)} \frac{1}{2} + \frac{1}{\chi} & \text{iii)} \frac{1}{5} - \frac{\mu}{\nu} & \text{iv)} 3 + \frac{1}{x} \\ \text{v)} \frac{3}{t} - 1 & \text{vi)} \frac{x}{2y} + \frac{\gamma}{8} & \text{vii)} \frac{\alpha}{3\chi} + \frac{\beta}{xy} & \text{viii)} \frac{1}{\mu} - \frac{5}{\mu^2} \end{array}$$

2. Να κάνετε τις πράξεις

$$\begin{array}{llll} \text{i)} \frac{3}{x} + \frac{5}{x+1} & \text{ii)} \frac{\alpha}{x} - \frac{a}{x+2} & \text{iii)} \frac{2}{x+2} + \frac{3}{x-1} \\ \text{iv)} \frac{1}{x^2} - \frac{1}{x^2+1} & \text{v)} \frac{x}{x+5} - \frac{x}{x-5} & \text{vi)} \frac{4}{x-y} - \frac{y}{(x-y)^2} \end{array}$$

3. Να κάνετε τις πράξεις

$$\begin{array}{llll} \text{i)} 1 + \frac{1}{a} - \frac{1}{a^2} & \text{ii)} \frac{1}{\alpha\beta - \beta^2} + \frac{1}{(\alpha - \beta)^2} & \text{iii)} \frac{2}{\alpha + \beta} - \frac{\alpha}{\alpha^2 - \beta^2} \\ \text{iv)} \frac{2a+3}{2a-2} - \frac{3a-2}{3a+3} - \frac{5}{6a^2-6} & \text{v)} \frac{x+y}{x-y} - \frac{x-y}{x+y} - \frac{x^2+y^2}{x^2-y^2} \end{array}$$

4. Να κάνετε τις πράξεις

$$\begin{array}{llll} \text{i)} \left(\frac{1}{x} + \frac{1}{y} \right) xy & \text{ii)} \left(1 + \frac{1}{x} + \frac{1}{x^2} \right) x^3 & \text{iii)} \left(\frac{1}{x} + \frac{1}{y} + \frac{1}{z} \right) xyz \\ \text{iv)} \left(\frac{1}{x} + \frac{1}{y} \right) (x+y) & \text{v)} \left(1 + \frac{y}{x} \right) \left(\frac{x}{y} - 1 \right) & \text{vi)} \left(\frac{\mu}{\nu} + \frac{\nu}{\mu} \right) : \left(\frac{1}{\mu} + \frac{1}{\nu} \right) \end{array}$$