

Όνομα : \_\_\_\_\_ CW17

Άσκηση 1:

Να κάνετε πράξεις μονωνύμων:

$$α) (-23x^{17}y^{11}z^4) \cdot (3x^{13}y^7z^{16}) =$$

$$β) \frac{18a^{13}b^{14}γ^{12}}{-6a^{13}b^7γ^6} =$$

$$γ) 7a^3b^2γ^3 + 17a^3b^2γ^3 =$$

$$δ) x^3y^4z + 14x^3y^4z =$$

$$ε) (-13x^{10}y^5z^{14}) \cdot (-4x^{12}y^{10}z^8) =$$

$$ς) -\frac{7}{2}x^{13}y^4z^8 + 4x^{12}y^4z^8 =$$

$$η) 2xy + yx =$$

$$θ) \frac{-28b^{16}a^{12}γ^{18}}{-7b^{10}γ^7a^5} =$$

$$ι) -17x^7y^8z^9 - 7x^{17}y^{18}z^{13} =$$

$$k) (27y^{11}x^{14}z^{12}) \cdot (-4z^3x^{10}y^{13}) =$$

$$o) \frac{-38z^{113}x^{21}y^{15}}{x^{17}y^{14}z^{101}} =$$

$$l) (x^5) \cdot (4y^5) =$$

$$n) -19x^{14}y^8 + 19y^8x^{14} =$$

$$m) \frac{-140z^{24}a^{12}b^{28}}{20z^5b^{14}a^7} =$$

$$p) -\frac{24}{25}x^{31}y^{12} - \frac{3}{5}x^{31}y^{12} =$$

$$r) -23x^{12}y^{21} + 13y^{21}x^{12} =$$

$$s) (-8z^{25}) \cdot (-7z^{14}) =$$

$$t) 5x^2y^2 + xy^2 =$$

$$u) -x^5y^{17} + x^5y^{17} =$$

$$v) -\frac{3}{7}x''y^2 + 7x''y^2 =$$

$$\varphi) \frac{27a^{14}b^{18}x^{14}}{y^{14}b^{17}a^{12}} =$$

$$\chi) (-15a^{24}b^{18}) \cdot (-10b^{14}a^{30}) =$$

$$\psi) \frac{-45z^{18}y^{14}x^{101}}{-5z^2x^{100}y^{14}} =$$

$$\omega) (-10x^7y^{23}z^8) \cdot (7z^{18}x^{14}y^3) =$$

$$a') \frac{68y^{22}z^{17}x^{100}}{-4z^{17}x^{95}y^{15}} =$$

$$b') (-38y^{22}a^3b^{113}) \cdot (-19a^8b^3y^{18}) =$$

$$\gamma') \frac{144x^{37}y^{17}z^{13}}{-18x^{29}z^{13}y^{17}} =$$

$$\delta') (-8b^{17}a^{17}y^4) \cdot (-16a^7b^{23}y^{16}) =$$

$$\varepsilon') \frac{18}{5}y^{17}z^2 + y^{17}z =$$

$$5') \frac{-44 y^{18} x^{12}}{-11 x^{11} y^9} =$$

$$n') (-8 x^{37} y^{111} z^{121}) \cdot (-3 x^{43} z^{111} y^{121}) =$$

$$o') (-14 y^{12} z^3 x^{83}) \cdot (-21 z^{17} x^{17} y^{97}) =$$

$$i') (-121 y^{132} z^{172} x^{138}) \cdot (-11 z^{128} y^{468} x^{162}) =$$

$$k') -\frac{5}{8} x y^{301} + \frac{2}{3} y^{301} x =$$

$$7') \frac{-49 \omega^{180} v^{164}}{-196 \omega^{160} v^{163}} =$$

$$\mu') -\frac{255}{256} z^{14} y^{190} + y^{190} z^{14} =$$

$$v') \frac{-144 x^{196} z^{104} y^{108}}{-180 x^{169} y^{107} z^{104}} =$$

$$3') (-1821 x^{1922} y^{125} z^{1204}) \cdot (-12 y^{1900} x^{103} z^{821}) =$$

$$o') \frac{121 y^{100} x^{100} z^{1001}}{-11 x^{100} y^{75} z^{1000}} =$$