

1. Να παραγοντοποιηθούν οι παραστάσεις :

I.	$\omega^2 + \omega$	X.	$1 - 9a^2\beta^2$
II.	$5x^3 - 10x + 5xy$	XI.	$(2x+1)^2 - 9y^2$
III.	$3x^3y - 6xy + 9xy^2$	XII.	$(3y-2)^2 - (y-1)^2$
IV.	$x^2(a-3) - 5x(3-a)$	XIII.	$x^2 + 6x + 9$
V.	$xy - 3yz + 2x - 6z$	XIV.	$z^2 - 4z + 4$
VI.	$10x + x^2 - 120\beta - 12x\beta$	XV.	$36x^2 + 25y^2 + 60xy$
VII.	$3\alpha^2 - 3\beta^2 - 9\alpha\beta + \alpha\beta$	XVI.	$2x^2 + 6x + 4$
VIII.	$\kappa^2 - 64$	XVII.	$y^2 - 8y + 15$
IX.	$100x^2 - y^2$	XVIII.	$2a^3 - 32a$

2. Να παραγοντοποιήσετε τις παραστάσεις :

i.	$by - ay + bz - az - bx + ax$	xi.	$\alpha x^2 - 4\beta x^2 - 5\alpha y^2 + 4\beta y^2$
ii.	$\alpha\chi^3 + \alpha y^2\chi - \beta\chi^3 - \beta y^2\chi$	xii.	$(3\alpha + \beta)^2 - (5\alpha - 4\beta)^2$
iii.	$225x^2 - 9y^2$	xiii.	$\alpha\beta^2 - \alpha\gamma^2$
iv.	$3x^2 - 27y^2$	xiv.	$x^2 - y^2 - (x-y)(2x+y)$
v.	$\alpha x^2 + bx^2 - ay^2 - by^2$	xv.	$\beta\chi - \alpha\beta - \chi^2 + \alpha\chi$
vi.	$4a^3 - 4 - 16a^2 + a$	xvi.	$\alpha^3 - \alpha$
vii.	$(\alpha - 2\beta)^2 - 25$	xvii.	$x^5 - x^3 - x^2 + 1$
viii.	$xy^2 - 1 - y^2 + x$	xviii.	$x^4 - x^2y^2 + xy^3 - y^4$
ix.	$3a^2 - 3\beta^2 + 6a - 6\beta$	xix.	$9x^2y^2 - 6xy + 1$
x.	$25a^2 - 10\alpha\beta + \beta^2$		