

6η Τάξη-Ελληνικά Μαθηματικά

Εργασία 3

(Α) Υπολογίστε τα παρακάτω.

1. $3x^2 + 8x^2$

2. $3\zeta - 2\zeta$

3. $23\beta^5 - 7\beta^7 + 10\beta^7$

4. $-60 + 3x^2 + x^{10} - (-8x^2) + 100$

5. $2\beta^8 - 10\beta^9 + 100\beta^8 - 31\beta^9$

6. $x^2 + y^2 - 3x^2$

7. $\zeta^{2^3} - \frac{2}{3}\theta^{3^2} - 27\zeta^8 + 3\theta^9$

8. $-2x^9 + 5x^9 + 8000x^9 - 2x^9 + x^9 + 5x^9 - 11x^9$

9. $2^4y^3 - 3^4y^{14} + y^5 + y^6 - 2 \cdot 3y^{14} + (-5)^2y^5$

10. $\left((3\eta^4 + 8\eta^{20} + \frac{100}{5}) + 5\eta^{20} - 2\eta^5\right) + \eta^4$

11. $3\zeta^3 \cdot 10\zeta^8$

12. $z \cdot z$

13. $-9\eta^4 \cdot 20\eta^{10}$

14. $x \cdot (-x) \cdot x$

15. $8\eta^3 \cdot 3\zeta \cdot (-3\eta^5)$

16. $\left(-\frac{2}{6}x^4\right) \cdot \left(\frac{3}{2}x^7\right) \cdot \left(-\frac{1}{5}x\right)$

17. $(-\beta) \cdot (-\beta) \cdot (-\beta) \cdot (-\beta) \cdot (-\beta) \cdot (-\beta)$

18. $(x^3)^2$

19. $-2\zeta^6 \cdot 3y^3 \cdot 6\zeta^3$

20. $x \cdot y \cdot x \cdot y \cdot x$

21. $4x^2 \cdot 5y^9 \cdot 10z^{11} \cdot (-2)y^3 \cdot (-7)x^3 \cdot 11z^{20}$

(B) Υπολογίστε τα παρακάτω.

1. $3x \cdot (2x^2 - 6x^5)$

2. $-10x^4 \cdot (3x^6 - 9x^{10})$

3. $(3\zeta - \zeta^2) \cdot (5\zeta^3 - 7\zeta^5)$

4. $(11\eta + 12\eta^4 - 4\eta^{13}) \cdot 5\eta^{17}$

$$5. (11\zeta + 12\zeta^4 - 4\zeta^{13}) \cdot (5\zeta^{17} - 2\zeta)$$

$$6. -2\theta^2 \cdot 6\theta^3 - \theta^5$$

$$7. \theta \cdot (3\theta + 2\theta^2 + 32\theta^3 + 9\theta^4 + 10\theta^5)$$

$$8. -2\eta^2 \cdot 6\eta^5 - 3\eta^4 \cdot 4\eta^3$$

$$9. (4\beta^8 + 3\beta^5) \cdot \beta^2 + 3\beta^4 \cdot (\beta - 5\beta^3 + 8\beta^6)$$