

6η Τάξη-Ελληνικά Μαθηματικά

Β' Τρίμηνο-Εργασία 3

(Α) Υπολογίστε τα παρακάτω. Να δείξετε την δουλειά σας.

1. $3x^3 - 8x^3$

2. $10\zeta^2 - 5\zeta^2$

3. $-13\zeta^4 + 10\zeta^4$

4. $-15\zeta^{21} - 21\zeta^{21}$

5. $-25\theta^5 + 31\theta^5$

6. $5\eta^{13} - 3\eta^{13} + 8\eta^{13}$

7. $35\eta^{37} - 8\eta^{37} + 9\eta^{37} - 87\eta^{37}$

$$8. -2\eta^{10} - 3\eta^{10} + \frac{4}{2}\eta^{10} - 32\eta^{10} + \eta^{10}$$

$$9. \theta + \theta + \theta + \theta + \theta + \theta + \theta + \theta + \theta + \theta + \theta + \theta$$

$$10. \theta - \theta + \theta - \theta + \theta - \theta + \theta - \theta + \theta - \theta + \theta$$

$$11. -\theta - \theta - \theta - \theta + 2\theta + 3\theta + 4\theta + 5\theta - 3\theta - 3\theta + 6\theta - 5\theta$$

$$12. 40\theta^5 + 40^2\theta^5 + 40^3\theta^5 + 40^4\theta^5$$

$$13. 10^2\zeta^6 - 10^3\zeta^6 + 10^4\zeta^6 - 10^5\zeta^6 + 10\zeta^6$$

$$14. -2\zeta^{10} + (-2)^2\zeta^{10} + (-2)^3\zeta^{10} + (-2)^4\zeta^{10} + (-2)^5\zeta^{10} + (-2)^6\zeta^{10}$$

$$15. (-2)^4x^3 - (-3)^2x^3 + (-2)^3x^3 - 3^2x^3 - (-2)x^3$$

$$16. x^{2^3} + x^8 - x^{4 \cdot 2} + 3x^{\frac{32}{2}}$$

$$17. (2x^3)^4 - 2x^{3+4+5} + 7x^{12} - 2^3x^{|-12|}$$

$$18. 2z - 3z + z^2$$

$$19. 3\theta^5 - 8\theta^2 + 6\theta^5$$

$$20. -8\eta^2 + 10\eta^2 + 30\eta^3 + 5\eta^3$$

$$21. -35\theta^2 + 3\theta^2 + \theta^{23} - \theta^2 + 3\theta^{23}$$

$$22. \frac{2}{3}\theta^5 + 1\theta^6 - 3\theta^7 - 8\theta^6 + \frac{1}{3}\theta^5 - 6\theta^6$$

$$23. 32\zeta^3 - 35\zeta^6 + 2\zeta^6 - 7\zeta^3 + 8\zeta - 10\zeta^{10}$$

$$24. \zeta + 2\zeta - 3\zeta - 8\zeta^2 + 9\zeta^3 + 10\zeta^4 - 3\zeta^3 + 6\zeta^2 - 20\zeta + 5\zeta^2 - 12\zeta^3$$

$$25. \theta - \theta^2 + \theta^3 - \theta^4 + \theta^5 + (-1)\theta^2 + (-1)^3\theta^3 + (-1)^4\theta^4 - \theta$$

$$26. (-1)^{20}\theta^{(-2)^4} + (3\theta^2)^8 - 6\theta^{10} + \left(\frac{2}{3} + \frac{2}{6}\right)\theta^{16} - \theta + (\theta^2)^5 - 9\theta^{(-1)^{2024}}$$

$$27. (\theta \cdot \theta \cdot 2\theta \cdot 3\theta) + (2^3\theta \cdot \theta^2 \cdot \theta) + ((35\theta^3) \cdot (-1\theta)) + ((7\theta) \cdot (9\theta^3)) + 7\theta^4$$

$$28. (1 - 2 + 4^2 - 1000 + 25 - 79)\zeta^{3+11+2^5} + \left(2 \cdot \frac{1}{10} \cdot 6 \cdot \frac{1}{4} \cdot 3 \cdot \frac{4}{9}\right)\zeta^{46}$$

$$29. \left((-1)^{2023} \eta^4 \right)^{20} + \left((2\eta) \cdot (-\eta^{14}) \cdot (\eta^5) \right)^4 + \left(3\eta^{10} - (\eta^5 \cdot \eta^5) \right)^8$$

$$30. \left((-1\beta^2)^3 \right)^5 + \left((2\beta^3)^1 \right)^{10} + (\beta^{12} \cdot \beta^{18})$$

(B) Μπόνους πρόβλημα

$$-7\beta^8 + \left(\beta^2 \cdot \left(\beta \cdot ((\beta \cdot \beta) - \beta) + (\beta - (\beta^2 \cdot \beta^2)) \cdot \beta \right) + \beta^5 - \beta^7 \right) \cdot \beta^3 + 28\beta^{10}$$