

Γνωστές ταυτότητες

1. $(\alpha + \beta)^2 = \alpha^2 + 2\alpha\beta + \beta^2$

2. $(\alpha - \beta)^2 = \alpha^2 - 2\alpha\beta + \beta^2$

3. $\alpha^2 - \beta^2 = (\alpha - \beta)(\alpha + \beta)$

4. $(\alpha + \beta)^3 = \alpha^3 + 3\alpha^2\beta + 3\alpha\beta^2 + \beta^3$

5. $(\alpha - \beta)^3 = \alpha^3 - 3\alpha^2\beta + 3\alpha\beta^2 - \beta^3$

6. $\alpha^3 + \beta^3 = (\alpha + \beta)(\alpha^2 - \alpha\beta + \beta^2)$

7. $\alpha^3 - \beta^3 = (\alpha - \beta)(\alpha^2 + \alpha\beta + \beta^2)$

8. $(\alpha + \beta + \gamma)^2 = \alpha^2 + \beta^2 + \gamma^2 + 2\alpha\beta + 2\alpha\gamma + 2\beta\gamma$

9. $(\alpha + \beta + \gamma)^3 = \alpha^3 + \beta^3 + \gamma^3 + 3(\alpha + \beta)(\alpha + \gamma)(\beta + \gamma)$