Expansion

Further/Expansion

Binomial Expansion

1. $expand\ (x+3)^4$

2. $expand\ (6+c)^5$

3. $expand\ (x+5)^4$

4. $expand\ (4+u)^5$

5. $expand\ (x+2)^4$

6. $expand\ (u+1)^4$

7. $expand\ (3+x)^5$

8. $expand\ (2+x)^5$

9. $expand\ (5+u)^5$

10. $expand\ (x+4)^4$

Answers

Expansion

Further/Expansion

Binomial Expansion

1. $x^4 + 12x^3 + 54x^2 + 108x + 81$

2. $7776 + 6480c + 2160c^2 + 360c^3 + 30c^4 + c^5$

3. $x^4 + 20x^3 + 150x^2 + 500x + 625$

4. $1024 + 1280u + 640u^2 + 160u^3 + 20u^4 + u^5$

5. $x^4 + 8x^3 + 24x^2 + 32x + 16$

6. $u^4 + 4u^3 + 6u^2 + 4u + 1$

7. $243 + 405x + 270x^2 + 90x^3 + 15x^4 + x^5$

8. $32 + 80x + 80x^2 + 40x^3 + 10x^4 + x^5$

9. $3125 + 3125u + 1250u^2 + 250u^3 + 25u^4 + u^5$

10. $x^4 + 16x^3 + 96x^2 + 256x + 256$