

## COMPLEX NUMBERS

### DEFINITION

The Imaginary Unit:  $i = \sqrt{-1}$  and  $i^2 = -1$   
 Complex Number:  $a + bi$  (where  $a, b \in \mathbb{R}$ )  
 Real part:  $a$  (where  $a \in \mathbb{R}$ )  
 Imaginary part:  $b$  (where  $b \in \mathbb{R}$ )

Complex Conjugate:  $a - bi$  and  $a + bi$

Modulus (absolute value):  $|a + bi| = \sqrt{a^2 + b^2}$

Argument (angle):  $\theta$  (where  $\theta \in [0, 2\pi)$ )

Complex Number:  $a + bi$  (where  $a, b \in \mathbb{R}$ )

### ALGEBRA

Addition:  $(a + bi) + (c + di) = (a + c) + (b + d)i$

Subtraction:  $(a + bi) - (c + di) = (a - c) + (b - d)i$

Multiplication:  $(a + bi)(c + di) = (ac - bd) + (ad + bc)i$

Multiplication of Complex Numbers:  $(a + bi)(c + di) = (ac - bd) + (ad + bc)i$

Multiplication of Polar Form:  $(r_1 \angle \theta_1)(r_2 \angle \theta_2) = (r_1 r_2) \angle (\theta_1 + \theta_2)$

Division:  $\frac{a + bi}{c + di} = \frac{(a + bi)(c - di)}{(c + di)(c - di)} = \frac{(ac + bd) + (bc - ad)i}{c^2 + d^2}$

Division of Polar Form:  $\frac{r_1 \angle \theta_1}{r_2 \angle \theta_2} = \left(\frac{r_1}{r_2}\right) \angle (\theta_1 - \theta_2)$

Complex Numbers:  $a + bi$  (where  $a, b \in \mathbb{R}$ )

### EXAMPLES

Complex Number:

$$(3 + 4i) + (2 - 5i) = 5 - i$$

$$(3 + 4i) - (2 - 5i) = 1 + 9i$$

$$(3 + 4i)(2 - 5i) = 6 - 15i + 8i - 20i^2 = 26 - 7i$$

### ALGEBRA

$$\frac{3 + 4i}{2 - 5i} = \frac{(3 + 4i)(2 + 5i)}{(2 - 5i)(2 + 5i)} = \frac{6 + 15i + 8i + 20i^2}{4 - 25i^2} = \frac{-14 + 23i}{29} = -\frac{14}{29} + \frac{23}{29}i$$

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## POLYNOMIAL EQUATIONS

### DEFINITION

Polynomial Equation:  $a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0 = 0$

where  $a_n \neq 0$  (degree  $n$ )

Roots:  $r_1, r_2, \dots, r_n$  (where  $r_i \in \mathbb{C}$ )

Sum of Roots:  $r_1 + r_2 + \dots + r_n = -\frac{a_{n-1}}{a_n}$

Product of Roots:  $r_1 r_2 \dots r_n = \frac{a_0}{a_n}$

Sum of Squares:  $r_1^2 + r_2^2 + \dots + r_n^2 = \left(-\frac{a_{n-1}}{a_n}\right)^2 - 2\frac{a_{n-2}}{a_n}$

Sum of Cubes:  $r_1^3 + r_2^3 + \dots + r_n^3 = \left(-\frac{a_{n-1}}{a_n}\right)^3 - 3\left(-\frac{a_{n-1}}{a_n}\right)\frac{a_{n-2}}{a_n} + 3\frac{a_{n-3}}{a_n}$

Sum of Fourth Powers:  $r_1^4 + r_2^4 + \dots + r_n^4 = \left(-\frac{a_{n-1}}{a_n}\right)^4 - 4\left(-\frac{a_{n-1}}{a_n}\right)^2\frac{a_{n-2}}{a_n} + 6\left(-\frac{a_{n-1}}{a_n}\right)\frac{a_{n-3}}{a_n} - 3\frac{a_{n-2}^2}{a_n^2} + 4\frac{a_{n-4}}{a_n}$

Sum of Fifth Powers:  $r_1^5 + r_2^5 + \dots + r_n^5 = \left(-\frac{a_{n-1}}{a_n}\right)^5 - 5\left(-\frac{a_{n-1}}{a_n}\right)^3\frac{a_{n-2}}{a_n} + 5\left(-\frac{a_{n-1}}{a_n}\right)^2\frac{a_{n-3}}{a_n} - 5\left(-\frac{a_{n-1}}{a_n}\right)\frac{a_{n-4}}{a_n} + 5\frac{a_{n-2}^2}{a_n^2} - 5\frac{a_{n-3}^2}{a_n^2} + 5\frac{a_{n-5}}{a_n}$

Sum of Sixth Powers:  $r_1^6 + r_2^6 + \dots + r_n^6 = \left(-\frac{a_{n-1}}{a_n}\right)^6 - 6\left(-\frac{a_{n-1}}{a_n}\right)^4\frac{a_{n-2}}{a_n} + 15\left(-\frac{a_{n-1}}{a_n}\right)^2\frac{a_{n-3}}{a_n} - 20\left(-\frac{a_{n-1}}{a_n}\right)\frac{a_{n-4}}{a_n} + 15\frac{a_{n-2}^2}{a_n^2} - 15\frac{a_{n-3}^2}{a_n^2} + 15\frac{a_{n-5}}{a_n} - 6\frac{a_{n-6}}{a_n}$

Sum of Seventh Powers:  $r_1^7 + r_2^7 + \dots + r_n^7 = \left(-\frac{a_{n-1}}{a_n}\right)^7 - 7\left(-\frac{a_{n-1}}{a_n}\right)^5\frac{a_{n-2}}{a_n} + 21\left(-\frac{a_{n-1}}{a_n}\right)^3\frac{a_{n-3}}{a_n} - 35\left(-\frac{a_{n-1}}{a_n}\right)^2\frac{a_{n-4}}{a_n} + 35\left(-\frac{a_{n-1}}{a_n}\right)\frac{a_{n-5}}{a_n} - 21\frac{a_{n-2}^2}{a_n^2} + 21\frac{a_{n-3}^2}{a_n^2} - 21\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n}$

Sum of Eighth Powers:  $r_1^8 + r_2^8 + \dots + r_n^8 = \left(-\frac{a_{n-1}}{a_n}\right)^8 - 8\left(-\frac{a_{n-1}}{a_n}\right)^6\frac{a_{n-2}}{a_n} + 28\left(-\frac{a_{n-1}}{a_n}\right)^4\frac{a_{n-3}}{a_n} - 56\left(-\frac{a_{n-1}}{a_n}\right)^2\frac{a_{n-4}}{a_n} + 70\left(-\frac{a_{n-1}}{a_n}\right)\frac{a_{n-5}}{a_n} - 35\frac{a_{n-2}^2}{a_n^2} + 35\frac{a_{n-3}^2}{a_n^2} - 35\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n} + 7\frac{a_{n-8}}{a_n}$

Sum of Ninth Powers:  $r_1^9 + r_2^9 + \dots + r_n^9 = \left(-\frac{a_{n-1}}{a_n}\right)^9 - 9\left(-\frac{a_{n-1}}{a_n}\right)^7\frac{a_{n-2}}{a_n} + 45\left(-\frac{a_{n-1}}{a_n}\right)^5\frac{a_{n-3}}{a_n} - 126\left(-\frac{a_{n-1}}{a_n}\right)^3\frac{a_{n-4}}{a_n} + 126\left(-\frac{a_{n-1}}{a_n}\right)^2\frac{a_{n-5}}{a_n} - 84\left(-\frac{a_{n-1}}{a_n}\right)\frac{a_{n-6}}{a_n} + 35\frac{a_{n-2}^2}{a_n^2} - 35\frac{a_{n-3}^2}{a_n^2} + 35\frac{a_{n-5}}{a_n} - 7\frac{a_{n-6}}{a_n} + 7\frac{a_{n-7}}{a_n} - 7\frac{a_{n-8}}{a_n} + 7\frac{a_{n-9}}{a_n}$

Sum of Tenth Powers:  $r_1^{10} + r_2^{10} + \dots + r_n^{10} = \left(-\frac{a_{n-1}}{a_n}\right)^{10} - 10\left(-\frac{a_{n-1}}{a_n}\right)^8\frac{a_{n-2}}{a_n} + 45\left(-\frac{a_{n-1}}{a_n}\right)^6\frac{a_{n-3}}{a_n} - 126\left(-\frac{a_{n-1}}{a_n}\right)^4\frac{a_{n-4}}{a_n} + 126\left(-\frac{a_{n-1}}{a_n}\right)^2\frac{a_{n-5}}{a_n} - 84\left(-\frac{a_{n-1}}{a_n}\right)\frac{a_{n-6}}{a_n} + 35\frac{a_{n-2}^2}{a_n^2} - 35\frac{a_{n-3}^2}{a_n^2} + 35\frac{a_{n-5}}{a_n} - 7\frac{a_{n-6}}{a_n} + 7\frac{a_{n-7}}{a_n} - 7\frac{a_{n-8}}{a_n} + 7\frac{a_{n-9}}{a_n} - 7\frac{a_{n-10}}{a_n}$

Sum of Eleventh Powers:  $r_1^{11} + r_2^{11} + \dots + r_n^{11} = \left(-\frac{a_{n-1}}{a_n}\right)^{11} - 11\left(-\frac{a_{n-1}}{a_n}\right)^9\frac{a_{n-2}}{a_n} + 55\left(-\frac{a_{n-1}}{a_n}\right)^7\frac{a_{n-3}}{a_n} - 165\left(-\frac{a_{n-1}}{a_n}\right)^5\frac{a_{n-4}}{a_n} + 165\left(-\frac{a_{n-1}}{a_n}\right)^3\frac{a_{n-5}}{a_n} - 132\left(-\frac{a_{n-1}}{a_n}\right)^2\frac{a_{n-6}}{a_n} + 77\left(-\frac{a_{n-1}}{a_n}\right)\frac{a_{n-7}}{a_n} - 33\frac{a_{n-2}^2}{a_n^2} + 33\frac{a_{n-3}^2}{a_n^2} - 33\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n} + 7\frac{a_{n-8}}{a_n} - 7\frac{a_{n-9}}{a_n} + 7\frac{a_{n-10}}{a_n} - 7\frac{a_{n-11}}{a_n}$

Sum of Twelfth Powers:  $r_1^{12} + r_2^{12} + \dots + r_n^{12} = \left(-\frac{a_{n-1}}{a_n}\right)^{12} - 12\left(-\frac{a_{n-1}}{a_n}\right)^{10}\frac{a_{n-2}}{a_n} + 66\left(-\frac{a_{n-1}}{a_n}\right)^8\frac{a_{n-3}}{a_n} - 220\left(-\frac{a_{n-1}}{a_n}\right)^6\frac{a_{n-4}}{a_n} + 220\left(-\frac{a_{n-1}}{a_n}\right)^4\frac{a_{n-5}}{a_n} - 154\left(-\frac{a_{n-1}}{a_n}\right)^2\frac{a_{n-6}}{a_n} + 110\left(-\frac{a_{n-1}}{a_n}\right)\frac{a_{n-7}}{a_n} - 55\frac{a_{n-2}^2}{a_n^2} + 55\frac{a_{n-3}^2}{a_n^2} - 55\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n} + 7\frac{a_{n-8}}{a_n} - 7\frac{a_{n-9}}{a_n} + 7\frac{a_{n-10}}{a_n} - 7\frac{a_{n-11}}{a_n} + 7\frac{a_{n-12}}{a_n}$

Sum of Thirteenth Powers:  $r_1^{13} + r_2^{13} + \dots + r_n^{13} = \left(-\frac{a_{n-1}}{a_n}\right)^{13} - 13\left(-\frac{a_{n-1}}{a_n}\right)^{11}\frac{a_{n-2}}{a_n} + 78\left(-\frac{a_{n-1}}{a_n}\right)^9\frac{a_{n-3}}{a_n} - 286\left(-\frac{a_{n-1}}{a_n}\right)^7\frac{a_{n-4}}{a_n} + 286\left(-\frac{a_{n-1}}{a_n}\right)^5\frac{a_{n-5}}{a_n} - 187\left(-\frac{a_{n-1}}{a_n}\right)^3\frac{a_{n-6}}{a_n} + 143\left(-\frac{a_{n-1}}{a_n}\right)^2\frac{a_{n-7}}{a_n} - 77\frac{a_{n-2}^2}{a_n^2} + 77\frac{a_{n-3}^2}{a_n^2} - 77\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n} + 7\frac{a_{n-8}}{a_n} - 7\frac{a_{n-9}}{a_n} + 7\frac{a_{n-10}}{a_n} - 7\frac{a_{n-11}}{a_n} + 7\frac{a_{n-12}}{a_n} - 7\frac{a_{n-13}}{a_n}$

Sum of Fourteenth Powers:  $r_1^{14} + r_2^{14} + \dots + r_n^{14} = \left(-\frac{a_{n-1}}{a_n}\right)^{14} - 14\left(-\frac{a_{n-1}}{a_n}\right)^{12}\frac{a_{n-2}}{a_n} + 91\left(-\frac{a_{n-1}}{a_n}\right)^{10}\frac{a_{n-3}}{a_n} - 364\left(-\frac{a_{n-1}}{a_n}\right)^8\frac{a_{n-4}}{a_n} + 364\left(-\frac{a_{n-1}}{a_n}\right)^6\frac{a_{n-5}}{a_n} - 221\left(-\frac{a_{n-1}}{a_n}\right)^4\frac{a_{n-6}}{a_n} + 154\left(-\frac{a_{n-1}}{a_n}\right)^2\frac{a_{n-7}}{a_n} - 77\frac{a_{n-2}^2}{a_n^2} + 77\frac{a_{n-3}^2}{a_n^2} - 77\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n} + 7\frac{a_{n-8}}{a_n} - 7\frac{a_{n-9}}{a_n} + 7\frac{a_{n-10}}{a_n} - 7\frac{a_{n-11}}{a_n} + 7\frac{a_{n-12}}{a_n} - 7\frac{a_{n-13}}{a_n} + 7\frac{a_{n-14}}{a_n}$

Sum of Fifteenth Powers:  $r_1^{15} + r_2^{15} + \dots + r_n^{15} = \left(-\frac{a_{n-1}}{a_n}\right)^{15} - 15\left(-\frac{a_{n-1}}{a_n}\right)^{13}\frac{a_{n-2}}{a_n} + 105\left(-\frac{a_{n-1}}{a_n}\right)^{11}\frac{a_{n-3}}{a_n} - 429\left(-\frac{a_{n-1}}{a_n}\right)^9\frac{a_{n-4}}{a_n} + 429\left(-\frac{a_{n-1}}{a_n}\right)^7\frac{a_{n-5}}{a_n} - 253\left(-\frac{a_{n-1}}{a_n}\right)^5\frac{a_{n-6}}{a_n} + 165\left(-\frac{a_{n-1}}{a_n}\right)^3\frac{a_{n-7}}{a_n} - 77\frac{a_{n-2}^2}{a_n^2} + 77\frac{a_{n-3}^2}{a_n^2} - 77\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n} + 7\frac{a_{n-8}}{a_n} - 7\frac{a_{n-9}}{a_n} + 7\frac{a_{n-10}}{a_n} - 7\frac{a_{n-11}}{a_n} + 7\frac{a_{n-12}}{a_n} - 7\frac{a_{n-13}}{a_n} + 7\frac{a_{n-14}}{a_n} - 7\frac{a_{n-15}}{a_n}$

Sum of Sixteenth Powers:  $r_1^{16} + r_2^{16} + \dots + r_n^{16} = \left(-\frac{a_{n-1}}{a_n}\right)^{16} - 16\left(-\frac{a_{n-1}}{a_n}\right)^{14}\frac{a_{n-2}}{a_n} + 120\left(-\frac{a_{n-1}}{a_n}\right)^{12}\frac{a_{n-3}}{a_n} - 544\left(-\frac{a_{n-1}}{a_n}\right)^{10}\frac{a_{n-4}}{a_n} + 544\left(-\frac{a_{n-1}}{a_n}\right)^8\frac{a_{n-5}}{a_n} - 300\left(-\frac{a_{n-1}}{a_n}\right)^6\frac{a_{n-6}}{a_n} + 187\left(-\frac{a_{n-1}}{a_n}\right)^4\frac{a_{n-7}}{a_n} - 77\frac{a_{n-2}^2}{a_n^2} + 77\frac{a_{n-3}^2}{a_n^2} - 77\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n} + 7\frac{a_{n-8}}{a_n} - 7\frac{a_{n-9}}{a_n} + 7\frac{a_{n-10}}{a_n} - 7\frac{a_{n-11}}{a_n} + 7\frac{a_{n-12}}{a_n} - 7\frac{a_{n-13}}{a_n} + 7\frac{a_{n-14}}{a_n} - 7\frac{a_{n-15}}{a_n} + 7\frac{a_{n-16}}{a_n}$

Sum of Seventeenth Powers:  $r_1^{17} + r_2^{17} + \dots + r_n^{17} = \left(-\frac{a_{n-1}}{a_n}\right)^{17} - 17\left(-\frac{a_{n-1}}{a_n}\right)^{15}\frac{a_{n-2}}{a_n} + 136\left(-\frac{a_{n-1}}{a_n}\right)^{13}\frac{a_{n-3}}{a_n} - 680\left(-\frac{a_{n-1}}{a_n}\right)^{11}\frac{a_{n-4}}{a_n} + 680\left(-\frac{a_{n-1}}{a_n}\right)^9\frac{a_{n-5}}{a_n} - 364\left(-\frac{a_{n-1}}{a_n}\right)^7\frac{a_{n-6}}{a_n} + 209\left(-\frac{a_{n-1}}{a_n}\right)^5\frac{a_{n-7}}{a_n} - 77\frac{a_{n-2}^2}{a_n^2} + 77\frac{a_{n-3}^2}{a_n^2} - 77\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n} + 7\frac{a_{n-8}}{a_n} - 7\frac{a_{n-9}}{a_n} + 7\frac{a_{n-10}}{a_n} - 7\frac{a_{n-11}}{a_n} + 7\frac{a_{n-12}}{a_n} - 7\frac{a_{n-13}}{a_n} + 7\frac{a_{n-14}}{a_n} - 7\frac{a_{n-15}}{a_n} + 7\frac{a_{n-16}}{a_n} - 7\frac{a_{n-17}}{a_n}$

Sum of Eighteenth Powers:  $r_1^{18} + r_2^{18} + \dots + r_n^{18} = \left(-\frac{a_{n-1}}{a_n}\right)^{18} - 18\left(-\frac{a_{n-1}}{a_n}\right)^{16}\frac{a_{n-2}}{a_n} + 153\left(-\frac{a_{n-1}}{a_n}\right)^{14}\frac{a_{n-3}}{a_n} - 765\left(-\frac{a_{n-1}}{a_n}\right)^{12}\frac{a_{n-4}}{a_n} + 765\left(-\frac{a_{n-1}}{a_n}\right)^{10}\frac{a_{n-5}}{a_n} - 400\left(-\frac{a_{n-1}}{a_n}\right)^8\frac{a_{n-6}}{a_n} + 229\left(-\frac{a_{n-1}}{a_n}\right)^6\frac{a_{n-7}}{a_n} - 77\frac{a_{n-2}^2}{a_n^2} + 77\frac{a_{n-3}^2}{a_n^2} - 77\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n} + 7\frac{a_{n-8}}{a_n} - 7\frac{a_{n-9}}{a_n} + 7\frac{a_{n-10}}{a_n} - 7\frac{a_{n-11}}{a_n} + 7\frac{a_{n-12}}{a_n} - 7\frac{a_{n-13}}{a_n} + 7\frac{a_{n-14}}{a_n} - 7\frac{a_{n-15}}{a_n} + 7\frac{a_{n-16}}{a_n} - 7\frac{a_{n-17}}{a_n} + 7\frac{a_{n-18}}{a_n}$

Sum of Nineteenth Powers:  $r_1^{19} + r_2^{19} + \dots + r_n^{19} = \left(-\frac{a_{n-1}}{a_n}\right)^{19} - 19\left(-\frac{a_{n-1}}{a_n}\right)^{17}\frac{a_{n-2}}{a_n} + 171\left(-\frac{a_{n-1}}{a_n}\right)^{15}\frac{a_{n-3}}{a_n} - 855\left(-\frac{a_{n-1}}{a_n}\right)^{13}\frac{a_{n-4}}{a_n} + 855\left(-\frac{a_{n-1}}{a_n}\right)^{11}\frac{a_{n-5}}{a_n} - 440\left(-\frac{a_{n-1}}{a_n}\right)^9\frac{a_{n-6}}{a_n} + 242\left(-\frac{a_{n-1}}{a_n}\right)^7\frac{a_{n-7}}{a_n} - 77\frac{a_{n-2}^2}{a_n^2} + 77\frac{a_{n-3}^2}{a_n^2} - 77\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n} + 7\frac{a_{n-8}}{a_n} - 7\frac{a_{n-9}}{a_n} + 7\frac{a_{n-10}}{a_n} - 7\frac{a_{n-11}}{a_n} + 7\frac{a_{n-12}}{a_n} - 7\frac{a_{n-13}}{a_n} + 7\frac{a_{n-14}}{a_n} - 7\frac{a_{n-15}}{a_n} + 7\frac{a_{n-16}}{a_n} - 7\frac{a_{n-17}}{a_n} + 7\frac{a_{n-18}}{a_n} - 7\frac{a_{n-19}}{a_n}$

Sum of Twentieth Powers:  $r_1^{20} + r_2^{20} + \dots + r_n^{20} = \left(-\frac{a_{n-1}}{a_n}\right)^{20} - 20\left(-\frac{a_{n-1}}{a_n}\right)^{18}\frac{a_{n-2}}{a_n} + 190\left(-\frac{a_{n-1}}{a_n}\right)^{16}\frac{a_{n-3}}{a_n} - 970\left(-\frac{a_{n-1}}{a_n}\right)^{14}\frac{a_{n-4}}{a_n} + 970\left(-\frac{a_{n-1}}{a_n}\right)^{12}\frac{a_{n-5}}{a_n} - 484\left(-\frac{a_{n-1}}{a_n}\right)^{10}\frac{a_{n-6}}{a_n} + 264\left(-\frac{a_{n-1}}{a_n}\right)^8\frac{a_{n-7}}{a_n} - 77\frac{a_{n-2}^2}{a_n^2} + 77\frac{a_{n-3}^2}{a_n^2} - 77\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n} + 7\frac{a_{n-8}}{a_n} - 7\frac{a_{n-9}}{a_n} + 7\frac{a_{n-10}}{a_n} - 7\frac{a_{n-11}}{a_n} + 7\frac{a_{n-12}}{a_n} - 7\frac{a_{n-13}}{a_n} + 7\frac{a_{n-14}}{a_n} - 7\frac{a_{n-15}}{a_n} + 7\frac{a_{n-16}}{a_n} - 7\frac{a_{n-17}}{a_n} + 7\frac{a_{n-18}}{a_n} - 7\frac{a_{n-19}}{a_n} + 7\frac{a_{n-20}}{a_n}$

Sum of Twenty-First Powers:  $r_1^{21} + r_2^{21} + \dots + r_n^{21} = \left(-\frac{a_{n-1}}{a_n}\right)^{21} - 21\left(-\frac{a_{n-1}}{a_n}\right)^{19}\frac{a_{n-2}}{a_n} + 210\left(-\frac{a_{n-1}}{a_n}\right)^{17}\frac{a_{n-3}}{a_n} - 1029\left(-\frac{a_{n-1}}{a_n}\right)^{15}\frac{a_{n-4}}{a_n} + 1029\left(-\frac{a_{n-1}}{a_n}\right)^{13}\frac{a_{n-5}}{a_n} - 500\left(-\frac{a_{n-1}}{a_n}\right)^{11}\frac{a_{n-6}}{a_n} + 252\left(-\frac{a_{n-1}}{a_n}\right)^9\frac{a_{n-7}}{a_n} - 77\frac{a_{n-2}^2}{a_n^2} + 77\frac{a_{n-3}^2}{a_n^2} - 77\frac{a_{n-5}}{a_n} + 7\frac{a_{n-6}}{a_n} - 7\frac{a_{n-7}}{a_n} + 7\frac{a_{n-8}}{a_n} - 7\frac{a_{n-9}}{a_n} + 7\frac{a_{n-10}}{a_n} - 7\frac{a_{n-11}}{a_n} + 7\frac{a_{n-12}}{a_n} - 7\frac{a_{n-13}}{$

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**Robert S. Feldman, Sherri  
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