

p	q	k	m	r	The ordinary generating function for the values of quartic polynomial $p \cdot n^4 + q \cdot n^3 + k \cdot n^2 + m \cdot n + r$	OEIS
1/24	-1/4	11/24	-1/4	0	$x^4 / (1-x)^5$	A000332
1/4	1/2	1/4	0	0	$(x+4x^2+x^3) / (1-x)^5$	A000537
1	0	0	0	0	$x \cdot (1+11x+11x^2+x^3) / (1-x)^5$	A000583
1/8	7/12	7/8	5/12	0	$x \cdot (2+x) / (1-x)^5$	A000914
1	-6	11	-5	0	$x \cdot (1-3x+3x^2+23x^3) / (1-x)^5$	A001094
1/8	5/12	3/8	1/12	0	$x \cdot (1+2x) / (1-x)^5$	A001296
4096	8192	5504	1408	105	$3 \cdot (35+6260x+20178x^2+6260x^3+35x^4) / (1-x)^5$	A001546
1/12	0	-1/12	0	0	$x^2 \cdot (1+x) / (1-x)^5$	A002415
5/24	7/12	7/24	-1/12		$x \cdot (1+4x) / (1-x)^5$	A002418
1	0	0	0	1	$(1-3x+17x^2+7x^3+2x^4) / (1-x)^5$	A002523
1/8	1/4	3/8	1/4	0	$x \cdot (1+x+x^2) / (1-x)^5$	A002817
1/8	-1/4	3/8	3/4	0	$x \cdot (1-2x+4x^2) / (1-x)^5$	A004255
1/6	5/6	4/3	2/3	0	$x \cdot (3+x) / (1-x)^5$	A004320
1/4	7/2	69/4	34	20	$(20-25x+14x^2-3x^3) / (1-x)^5$	A005565
1/24	7/12	71/24	65/12	3	$x^2 \cdot (3-3x+x^2) / (1-x)^5$	A005718
1/12	1/6	5/12	1/3	0	$(1+x^2) / (1-x)^5$	A006007
1/4	0	-1/4	0	0	$3 \cdot (1+x) / (1-x)^5$	A006011
1/6	-1/3	1/3	-1/6	0	$x^2 \cdot (1+x)^2 / (1-x)^5$	A006325
1/24	-1/4	23/24	-7/4	1	$(1-5x+10x^2-9x^3+4x^4) / (1-x)^5$	A006522
1/4	0	1/4	1/2	0	$x \cdot (1+x+4x^2) / (1-x)^5$	A006528
25/6	-20	209/6	-18	0	$x \cdot (1+5x+17x^2+77x^3) / (1-x)^5$	A006529
4	8	8	4	1	$(1+54x^2+20x+20x^3+x^4) / (1-x)^5$	A007204
5/6	0	1/6	0	0	$x \cdot (1+9x+9x^2+x^3) / (1-x)^5$	A008354
35/12	35/6	85/12	26/6	1	$(1+x^4+16x^3+36x^2+16x) / (1-x)^5$	A008384
5/24	5/12	55/24	25/12	1	$(1+x+x^2+x^3+x^4) / (1-x)^5$	A008498
2	4	6	4	1	$(1+12x+22x^2+12x^3+x^4) / (1-x)^5$	A008514
1/24	11/12	59/24	31/12	1	$(1-x^3-x^2+2x) / (1-x)^5$	A008779
24	50	35	10	1	$(1+105x^3+355x^2+115x) / (1-x)^5$	A011245
1/12	1/2	5/12	0	0	$x \cdot (1+2x-x^2) / (1-x)^5$	A014205
144	-96	16	0	0	$64 \cdot x \cdot (1+20x+29x^2+4x^3) / (1-x)^5$	A014794

$$a(n) = pn^4 + qn^3 + kn^2 + mn + r \Rightarrow G.f. : \frac{(r + (p + q + k + m - 4r)x + (11p + 3q - k - 3m + 6r)x^2 + (11p - 3q - k + 3m - 4r)x^3 + (p - q + k - m + r)x^4)}{(1-x)^5}$$