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Real02 for No.9844

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 4x^3 + 4x + 2, c = 3] \\ .2 = [p(x) = x^4 + 4x^3 - 4x^2 - 2, c = -1] \\ .3 = \left[p(x) = -9x - 5 + 3x^3 + 2x^2, c = \frac{-2}{3} \right] \\ .4 = \left[p(x) = 10x^4 - 19x^3 - 15x^2 - 8x + 27, c = \frac{5}{2} \right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 1, a(x) = x^4 - 4x^3 - x^2 + m] \\ .2 = [b(x) = x - 3, a(x) = x^4 - 3x^3 + mx + 3] \\ .3 = [b(x) = x - m, a(x) = x^2 - 12x + 33, r = -2] \\ .4 = [b(x) = 3x - 4, a(x) = -16x^2 + 12x - 21 + mx^3, r = -5] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + x^2 - 25x - 25] \\ .2 = [p(x) = x^4 - 13x^2 + 36] \\ .3 = [p(x) = x^3 + 64] \\ .4 = [p(x) = x^4 - 16] \\ .5 = [p(x) = x^4 - 2x^3 + x^2 - 4x + 4] \\ .6 = [p(x) = x^4 - 3x^3 - 21x^2 + 43x + 60] \\ .7 = [p(x) = 15x^3 + 58x^2 + 68x + 24] \\ .8 = [p(x) = 9x^4 + 12x^3 - 41x^2 - 48x + 20] \end{bmatrix}$$

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Real02 for No.9872

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 5x^2 - 3x - 5, c = 2] \\ .2 = [p(x) = x^4 + 2x^3 + 5x + 2, c = -3] \\ .3 = \left[p(x) = -6x - 12 + 15x^4 + 25x^3, c = \frac{-5}{3} \right] \\ .4 = \left[p(x) = -6x - 2 + 4x^4 - 2x^3, c = \frac{1}{2} \right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 1, a(x) = mx^3 + x^4 - x^2 + 2x - 2] \\ .2 = [b(x) = x + 3, a(x) = x^4 + 3x^3 + m - 3x] \\ .3 = [b(x) = 2x + 1, a(x) = 2x^3 + 8x^4 - 7 - 6x + mx^2, r = -4] \\ .4 = [b(x) = x - m, a(x) = x^2 - 2x - 21, r = 3] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 2x^2 - 25x - 50] \\ .2 = [p(x) = x^4 - 26x^2 + 25] \\ .3 = [p(x) = x^3 - 27] \\ .4 = [p(x) = x^4 - 256] \\ .5 = [p(x) = x^4 - x^3 - 28x^2 - 20x + 48] \\ .6 = [p(x) = x^4 + 6x^3 + 13x^2 + 14x + 6] \\ .7 = [p(x) = 6x^3 - 11x^2 - 17x + 30] \\ .8 = [p(x) = 10x^4 - 37x^3 + 35x^2 + 4x - 12] \end{bmatrix}$$

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Real02 for No.9873

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 3x^3 - 4x - 1, c = 1] \\ .2 = [p(x) = x^4 - 4x^2 + 3x + 1, c = -2] \\ .3 = \left[p(x) = 10x + 8x^2, c = \frac{-3}{2}\right] \\ .4 = \left[p(x) = 6x^4 - 2x^3 - 8x^2 + 9x - 10, c = \frac{4}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 2, a(x) = x^4 + 2x^3 + mx - 4] \\ .2 = [b(x) = x - 3, a(x) = mx^3 + x^4 + 2x - 6] \\ .3 = [b(x) = x - m, a(x) = x^2 - 3x + 7, r = 5] \\ .4 = [b(x) = 3x - 4, a(x) = 24x - 19 + 6x^3 + mx^2, r = -3] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 4x^2 - 9x - 36] \\ .2 = [p(x) = x^4 - 26x^2 + 25] \\ .3 = [p(x) = x^3 - 27] \\ .4 = [p(x) = x^4 - 256] \\ .5 = [p(x) = x^4 - 4x^3 - 2x^2 + 17x - 6] \\ .6 = [p(x) = x^4 + 12x^3 + 49x^2 + 78x + 40] \\ .7 = [p(x) = 12x^3 + 11x^2 - 23x + 6] \\ .8 = [p(x) = 15x^4 - 52x^3 - 6x^2 + 76x + 15] \end{bmatrix}$$

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Real02 for No.9884

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 3x^3 + x + 5, c = 3] \\ .2 = [p(x) = x^4 - 2x^2 + 4x + 1, c = -2] \\ .3 = \left[p(x) = -6x^2 - 13x + 9x^4 + 6x^3 - 4, c = \frac{-2}{3}\right] \\ .4 = \left[p(x) = 6x^4 + x^3 - 2x^2 - 8x + 11, c = \frac{1}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 1, a(x) = x^4 - x^3 - 2x^2 + m] \\ .2 = [b(x) = x + 2, a(x) = mx^3 + x^4 - 4x + 16] \\ .3 = [b(x) = x - m, a(x) = x^2 - x - 23, r = -3] \\ .4 = [b(x) = 3x - 1, a(x) = 15x^4 + 7x^3 - 4x^2 + 4 + mx, r = 2] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 4x^2 - 9x - 36] \\ .2 = [p(x) = x^4 - 17x^2 + 16] \\ .3 = [p(x) = x^3 + 8] \\ .4 = [p(x) = x^4 - 1] \\ .5 = [p(x) = x^4 - 3x^3 - 14x^2 + 48x - 32] \\ .6 = [p(x) = x^4 + 4x^3 + 7x^2 + 8x + 4] \\ .7 = [p(x) = 6x^3 - 7x^2 - 14x + 8] \\ .8 = [p(x) = 20x^4 - 81x^3 + 52x^2 + 45x - 36] \end{bmatrix}$$

Real02 for No.9885

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 + 3x^3 - 5x - 2, c = 1] \\ .2 = [p(x) = x^4 + 4x^3 + 2x^2 + 2, c = -3] \\ .3 = \left[p(x) = -18x^3 + 20x^2 + 4x^4 + 4x - 13, c = \frac{5}{2}\right] \\ .4 = \left[p(x) = -6x - 2 + 12x^4 + 8x^3 + 9x^2, c = \frac{-2}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 2, a(x) = x^4 + m x^2 - 2x^3 - 12] \\ .2 = [b(x) = x - 3, a(x) = m x^3 + x^4 - 4x^2 - 18] \\ .3 = [b(x) = 3x + 4, a(x) = 9x^2 + 9x^3 - 11 + m x, r = 5] \\ .4 = [b(x) = x - m, a(x) = x^2 - 2x + 4, r = 7] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 2x^2 - 25x - 50] \\ .2 = [p(x) = x^4 - 17x^2 + 16] \\ .3 = [p(x) = x^3 + 27] \\ .4 = [p(x) = x^4 - 1] \\ .5 = [p(x) = x^4 - 6x^3 + 13x^2 - 16x + 12] \\ .6 = [p(x) = x^4 + 14x^3 + 65x^2 + 112x + 60] \\ .7 = [p(x) = 15x^3 - 17x^2 - 24x - 4] \\ .8 = [p(x) = 12x^4 - 59x^3 + 61x^2 + 36x - 36] \end{bmatrix}$$

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Real02 for No.9895

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 4x^3 + 2x^2 + 2, c = 2] \\ .2 = [p(x) = x^4 + 4x^3 - 4x - 1, c = -3] \\ .3 = \left[p(x) = x^3 - x^2 + 6x^4 - 1, c = \frac{-1}{2}\right] \\ .4 = \left[p(x) = -20x^3 + 16x^2 + 6x^4 - 5, c = \frac{4}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 2, a(x) = x^4 + x^3 + m x - 4] \\ .2 = [b(x) = x - 1, a(x) = x^4 + m x^2 - x + 4] \\ .3 = [b(x) = 3x - 5, a(x) = 12x - 15 + 9x^4 - 10x^2 + m x^3, r = 5] \\ .4 = [b(x) = x - m, a(x) = x^2 + 2x - 7, r = 1] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 3x^2 - x - 3] \\ .2 = [p(x) = x^4 - 26x^2 + 25] \\ .3 = [p(x) = x^3 - 8] \\ .4 = [p(x) = x^4 - 625] \\ .5 = [p(x) = x^4 + 5x^3 + 4x^2 - 7x - 3] \\ .6 = [p(x) = x^4 + 5x^3 - 13x^2 - 53x + 60] \\ .7 = [p(x) = 8x^3 + 30x^2 + 27x + 5] \\ .8 = [p(x) = 20x^4 - 67x^3 + 83x^2 - 45x + 9] \end{bmatrix}$$

Real02 for No.9898

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 + 2x^3 - 5x - 3, c = 2] \\ .2 = [p(x) = x^4 + 2x^3 - 3x^2 - 1, c = -3] \\ .3 = \left[p(x) = 8x^4 - 20x^3 - 6x^2 + 11x + 6, c = \frac{5}{2}\right] \\ .4 = \left[p(x) = 12x^2 + 19x + 15x^4 + 20x^3 + 2, c = \frac{-4}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 3, a(x) = x^4 + 3x^3 + m + x] \\ .2 = [b(x) = x - 1, a(x) = x^4 - 2x^3 + mx - 3] \\ .3 = [b(x) = x - m, a(x) = x^2 + 6x + 10, r = 5] \\ .4 = [b(x) = 2x + 1, a(x) = -7x - 11 + 2x^2 + 10x^4 + mx^3, r = -7] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 5x^2 - 9x - 45] \\ .2 = [p(x) = x^4 - 26x^2 + 25] \\ .3 = [p(x) = x^3 + 27] \\ .4 = [p(x) = x^4 - 81] \\ .5 = [p(x) = x^4 - 5x^3 - 5x^2 + 45x - 36] \\ .6 = [p(x) = x^4 - 3x^3 - 8x^2 + 26x - 12] \\ .7 = [p(x) = 12x^3 + 25x^2 - 31x + 6] \\ .8 = [p(x) = 12x^4 - 67x^3 + 129x^2 - 96x + 20] \end{bmatrix}$$

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Real02 for No.9899

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 + 5x^2 + 2x - 5, c = 1] \\ .2 = [p(x) = x^4 + 4x^3 - 5x - 5, c = -3] \\ .3 = \left[p(x) = 13x^2 - 13x + 12x^3 - 5, c = \frac{-4}{3}\right] \\ .4 = \left[p(x) = -28x + 25 + 2x^3 + 3x^2, c = \frac{5}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 2, a(x) = x^4 + mx^2 + 5x - 14] \\ .2 = [b(x) = x - 3, a(x) = x^4 - x^3 + mx - 4x^2 - 18] \\ .3 = [b(x) = 3x + 4, a(x) = 6x + 7 + 9x^4 + mx^3, r = -1] \\ .4 = [b(x) = x - m, a(x) = x^2 + 3x - 4, r = 6] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 - 3x^2 - 4x + 12] \\ .2 = [p(x) = x^4 - 10x^2 + 9] \\ .3 = [p(x) = x^3 - 8] \\ .4 = [p(x) = x^4 - 1] \\ .5 = [p(x) = x^4 + 4x^3 - 7x^2 - 34x - 24] \\ .6 = [p(x) = x^4 + x^3 - 8x^2 + 2x + 4] \\ .7 = [p(x) = 10x^3 - 43x^2 + 58x - 24] \\ .8 = [p(x) = 9x^4 - 24x^3 - 26x^2 + 56x - 15] \end{bmatrix}$$

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Real02 for No.9920

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 + 2x^2 - 2x - 5, c = 2] \\ .2 = [p(x) = x^4 + 3x^3 + x + 3, c = -3] \\ .3 = \left[p(x) = 6x^2 + 3x + 2, c = \frac{1}{2} \right] \\ .4 = \left[p(x) = 3x - 2 + 12x^3 + 16x^2, c = \frac{-4}{3} \right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 1, a(x) = m x^3 + x^4 - 2x^2 - 2x - 1] \\ .2 = [b(x) = x - 2, a(x) = x^4 + m x^2 - 3x^3 - 4x + 16] \\ .3 = [b(x) = 3x - 1, a(x) = 6x^3 - 2x^2 + 9x + m, r = 2] \\ .4 = [b(x) = x - m, a(x) = x^2 + 3x - 29, r = -1] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 - 2x^2 - x + 2] \\ .2 = [p(x) = x^4 - 25x^2 + 144] \\ .3 = [p(x) = x^3 + 1] \\ .4 = [p(x) = x^4 - 16] \\ .5 = [p(x) = x^4 - 7x^3 + 18x^2 - 22x + 12] \\ .6 = [p(x) = x^4 + x^3 - 19x^2 + 11x + 30] \\ .7 = [p(x) = 20x^3 - 89x^2 + 93x - 18] \\ .8 = [p(x) = 8x^4 - 22x^3 + x^2 + 25x - 6] \end{bmatrix}$$

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Real02 for No.10000

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 4x^3 + 4x - 5, c = 3] \\ .2 = [p(x) = x^4 + 2x^3 - 4x^2 + 3, c = -2] \\ .3 = \left[p(x) = 2x^2 - 5x + 7, c = \frac{1}{2} \right] \\ .4 = \left[p(x) = 12x^3 + 25x^2 + 24x + 17, c = \frac{-4}{3} \right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 1, a(x) = m x^3 + x^4 - 5x - 11] \\ .2 = [b(x) = x - 3, a(x) = x^4 + m x^2 - 2x^3] \\ .3 = [b(x) = 2x + 3, a(x) = 4x^4 + 6x^3 + 8x^2 + m x, r = 6] \\ .4 = [b(x) = x - m, a(x) = x^2 - 2x - 13, r = -5] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 - 5x^2 - 4x + 20] \\ .2 = [p(x) = x^4 - 10x^2 + 9] \\ .3 = [p(x) = x^3 + 1] \\ .4 = [p(x) = x^4 - 256] \\ .5 = [p(x) = x^4 - 5x^3 - 10x^2 + 20x + 24] \\ .6 = [p(x) = x^4 + 9x^3 + 24x^2 + 19x + 3] \\ .7 = [p(x) = 15x^3 + 17x^2 - 24x + 4] \\ .8 = [p(x) = 6x^4 + 7x^3 - 43x^2 - 84x - 36] \end{bmatrix}$$

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Real02 for No.10017

$$No01=\begin{bmatrix} .1=[\mathrm{p}(x)=x^4-x^3-x-1,\ c=2] \\ .2=[\mathrm{p}(x)=x^4-x^2-5x-1,\ c=-1] \\ .3=\left[\mathrm{p}(x)=-7+4x^4+2x^3+8x^2,\ c=\frac{-1}{2}\right] \\ .4=\left[\mathrm{p}(x)=15x^4-10x^3-6x^2-8x+2,\ c=\frac{2}{3}\right] \end{bmatrix}$$

$$No02=\begin{bmatrix} .1=[\mathrm{b}(x)=x+1,\ \mathrm{a}(x)=m\,x^3+x^4-3x+1] \\ .2=[\mathrm{b}(x)=x-2,\ \mathrm{a}(x)=x^4+m\,x^2-4x+12] \\ .3=[\mathrm{b}(x)=3x-2,\ \mathrm{a}(x)=9x^3-6x^2-7+m\,x,\ r=-1] \\ .4=[\mathrm{b}(x)=x-m,\ \mathrm{a}(x)=x^2-8x+22,\ r=7] \end{bmatrix}$$

$$No03=\begin{bmatrix} .1=[\mathrm{p}(x)=x^3+2x^2-16x-32] \\ .2=[\mathrm{p}(x)=x^4-41x^2+400] \\ .3=[\mathrm{p}(x)=x^3-1] \\ .4=[\mathrm{p}(x)=x^4-1] \\ .5=[\mathrm{p}(x)=x^4+2x^3-13x^2-14x+24] \\ .6=[\mathrm{p}(x)=x^4-x^3-8x^2+11x-3] \\ .7=[\mathrm{p}(x)=9x^3+36x^2+17x-30] \\ .8=[\mathrm{p}(x)=6x^4+13x^3-16x^2-53x-30] \end{bmatrix}$$

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Real02 for No.10057

$$No01=\begin{bmatrix} .1=[\mathrm{p}(x)=x^4-4x^3+5x^2+1,\ c=2] \\ .2=[\mathrm{p}(x)=x^4+5x^3-x+3,\ c=-1] \\ .3=\left[\mathrm{p}(x)=x-6+8x^3+18x^2,\ c=\frac{-3}{2}\right] \\ .4=\left[\mathrm{p}(x)=6x^3-4x^2-10x+7,\ c=\frac{5}{3}\right] \end{bmatrix}$$

$$No02=\begin{bmatrix} .1=[\mathrm{b}(x)=x+3,\ \mathrm{a}(x)=m\,x^3+x^4-5x+12] \\ .2=[\mathrm{b}(x)=x-1,\ \mathrm{a}(x)=x^4+m\,x^2+2x^3-5x+2] \\ .3=[\mathrm{b}(x)=3x-4,\ \mathrm{a}(x)=-5+6x^3-8x^2+m\,x,\ r=-1] \\ .4=[\mathrm{b}(x)=x-m,\ \mathrm{a}(x)=x^2+3x-16,\ r=2] \end{bmatrix}$$

$$No03=\begin{bmatrix} .1=[\mathrm{p}(x)=x^3-3x^2-16x+48] \\ .2=[\mathrm{p}(x)=x^4-34x^2+225] \\ .3=[\mathrm{p}(x)=x^3+8] \\ .4=[\mathrm{p}(x)=x^4-1] \\ .5=[\mathrm{p}(x)=x^4-2x^3-9x^2+16x-6] \\ .6=[\mathrm{p}(x)=x^4-7x^3+5x^2+31x-30] \\ .7=[\mathrm{p}(x)=15x^3+28x^2-7x-20] \\ .8=[\mathrm{p}(x)=16x^4+16x^3-49x^2-19x+30] \end{bmatrix}$$

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Real02 for No.10061

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 4x^3 + 5x + 1, c = 3] \\ .2 = [p(x) = x^4 - x^2 - 2x - 3, c = -2] \\ .3 = \left[p(x) = -32x + 19 + 12x^2 + 15x^4 - 25x^3, c = \frac{5}{3}\right] \\ .4 = \left[p(x) = 2x^2 + x + 4, c = \frac{-1}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 1, a(x) = x^4 - 3x^3 - x^2 + m] \\ .2 = [b(x) = x - 3, a(x) = m x^3 + x^4 - 5x - 12] \\ .3 = [b(x) = x - m, a(x) = x^2 + 2x - 32, r = 3] \\ .4 = [b(x) = 2x - 3, a(x) = 8x^4 - 10x^3 + 8x - 11 + m x^2, r = 1] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 2x^2 - 25x - 50] \\ .2 = [p(x) = x^4 - 29x^2 + 100] \\ .3 = [p(x) = x^3 + 64] \\ .4 = [p(x) = x^4 - 256] \\ .5 = [p(x) = x^4 - 14x^3 + 65x^2 - 112x + 60] \\ .6 = [p(x) = x^4 - 6x^3 + 5x^2 + 8x - 4] \\ .7 = [p(x) = 6x^3 + 25x^2 + 34x + 15] \\ .8 = [p(x) = 15x^4 + 62x^3 + 45x^2 - 26x - 24] \end{bmatrix}$$

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Real02 for No.10071

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 3x^3 + 4x + 4, c = 3] \\ .2 = [p(x) = x^4 + 4x^3 - 4x - 1, c = -2] \\ .3 = \left[p(x) = -11x^3 + 3x^2 + 10x^4 - 8x + 3, c = \frac{1}{2}\right] \\ .4 = \left[p(x) = 12x + 9 - 16x^2 + 9x^4, c = \frac{-4}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 2, a(x) = x^4 + 2x^3 - 4x^2 + m] \\ .2 = [b(x) = x + 3, a(x) = x^4 + m x^2 + 2x^3 + 5x - 12] \\ .3 = [b(x) = 2x + 5, a(x) = 15 + 7x^2 + 6x^3 + m x, r = -5] \\ .4 = [b(x) = x - m, a(x) = x^2 + 10x + 15, r = -6] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 - x^2 - 9x + 9] \\ .2 = [p(x) = x^4 - 29x^2 + 100] \\ .3 = [p(x) = x^3 + 125] \\ .4 = [p(x) = x^4 - 81] \\ .5 = [p(x) = x^4 - 5x^3 + 3x^2 + 7x - 2] \\ .6 = [p(x) = x^4 + 3x^3 - 7x^2 - 27x - 18] \\ .7 = [p(x) = 10x^3 - 7x^2 - 37x - 20] \\ .8 = [p(x) = 8x^4 - 18x^3 - 9x^2 + 23x + 6] \end{bmatrix}$$

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Real02 for No.10088

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 3x^3 + x^2 + 5, c = 3] \\ .2 = [p(x) = x^4 - x^2 + x + 4, c = -1] \\ .3 = \left[p(x) = 2x^4 + 5x^3 - 2, c = \frac{-5}{2}\right] \\ .4 = \left[p(x) = -9x^3 + 2x^2 + 9x^4 - 4, c = \frac{2}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 1, a(x) = m x^3 + x^4 + 2x^2 + 5x - 8] \\ .2 = [b(x) = x + 3, a(x) = x^4 + 4x^3 + 2x^2 + m] \\ .3 = [b(x) = 2x + 5, a(x) = 18x^2 + 8x^3 - 18 + m x, r = -3] \\ .4 = [b(x) = x - m, a(x) = x^2 + x - 12, r = -6] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 4x^2 - 25x - 100] \\ .2 = [p(x) = x^4 - 26x^2 + 25] \\ .3 = [p(x) = x^3 + 8] \\ .4 = [p(x) = x^4 - 625] \\ .5 = [p(x) = x^4 - 7x^3 + 16x^2 - 14x + 4] \\ .6 = [p(x) = x^4 + 5x^3 - 7x^2 - 29x + 30] \\ .7 = [p(x) = 15x^3 - 22x^2 + 3x + 4] \\ .8 = [p(x) = 15x^4 - 29x^3 - 73x^2 + 81x - 18] \end{bmatrix}$$

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Real02 for No.10385

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 2x^3 - 5x - 3, c = 2] \\ .2 = [p(x) = x^4 + 2x^3 - 4x^2 - 4, c = -1] \\ .3 = \left[p(x) = 2x^3 + 13x^2 + 28x + 16, c = \frac{-5}{2}\right] \\ .4 = \left[p(x) = -7x^2 + 4x + 3x^3 - 3, c = \frac{4}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 2, a(x) = m x^3 + x^4 - 3x - 2] \\ .2 = [b(x) = x + 1, a(x) = x^4 + 2x^3 + m x + 5x^2 - 4] \\ .3 = [b(x) = 2x - 1, a(x) = 6x^3 - x^2 - x + m, r = -3] \\ .4 = [b(x) = x - m, a(x) = x^2 - 10x + 25, r = 4] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 3x^2 - 4x - 12] \\ .2 = [p(x) = x^4 - 25x^2 + 144] \\ .3 = [p(x) = x^3 - 64] \\ .4 = [p(x) = x^4 - 81] \\ .5 = [p(x) = x^4 - x^2 + 4x - 4] \\ .6 = [p(x) = x^4 + 2x^3 - 7x^2 - 20x - 12] \\ .7 = [p(x) = 9x^3 + 36x^2 + 47x + 20] \\ .8 = [p(x) = 12x^4 + 25x^3 + 13x^2 - x - 1] \end{bmatrix}$$

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X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600104-00017XX
Real02 for No.10387

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 4x^3 + 3x^2 + 2, c = 3] \\ .2 = [p(x) = x^4 - x^2 + 3x - 3, c = -1] \\ .3 = \left[p(x) = -8x - 1 + 4x^3 + 2x^2, c = \frac{-1}{2}\right] \\ .4 = \left[p(x) = 9x^2 - 6x - 14, c = \frac{5}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 1, a(x) = x^4 + m x^2 - 4x - 3] \\ .2 = [b(x) = x - 3, a(x) = m x^3 + x^4 - 4x^2 + 9] \\ .3 = [b(x) = x - m, a(x) = x^2 - 9x + 11, r = -3] \\ .4 = [b(x) = 2x + 5, a(x) = 18x^3 - 5x^2 + 8x^4 + 8x + m, r = -4] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 - 4x^2 - 9x + 36] \\ .2 = [p(x) = x^4 - 25x^2 + 144] \\ .3 = [p(x) = x^3 - 125] \\ .4 = [p(x) = x^4 - 1] \\ .5 = [p(x) = x^4 + 3x^3 + x^2 + x - 6] \\ .6 = [p(x) = x^4 + 3x^3 - 14x^2 - 48x - 32] \\ .7 = [p(x) = 20x^3 + 79x^2 + 51x - 18] \\ .8 = [p(x) = 20x^4 - 21x^3 - 176x^2 + 189x - 36] \end{bmatrix}$$

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Real02 for No.10914

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 3x^2 + 4x - 2, c = 2] \\ .2 = [p(x) = x^4 - 4x^3 + 3x^2 - 1, c = -1] \\ .3 = \left[p(x) = -26x^2 + 10x + 12x^3 - 3, c = \frac{5}{3}\right] \\ .4 = \left[p(x) = -12x + 27 - 8x^2 + 4x^4 + 10x^3, c = \frac{-5}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 2, a(x) = x^4 + m x - 2x^2 + 2] \\ .2 = [b(x) = x - 3, a(x) = x^4 + m x^2 - 2x^3 - 2x - 21] \\ .3 = [b(x) = x - m, a(x) = x^2 - 8x + 1, r = -6] \\ .4 = [b(x) = 2x + 5, a(x) = 10x^4 + 31x^3 + 15x^2 - 4x + m, r = 1] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + x^2 - 25x - 25] \\ .2 = [p(x) = x^4 - 29x^2 + 100] \\ .3 = [p(x) = x^3 - 64] \\ .4 = [p(x) = x^4 - 81] \\ .5 = [p(x) = x^4 + 5x^3 - 7x^2 - 41x - 30] \\ .6 = [p(x) = x^4 + 6x^3 + 4x^2 - 9x - 2] \\ .7 = [p(x) = 15x^3 - 44x^2 + 41x - 12] \\ .8 = [p(x) = 12x^4 - 43x^3 + 46x^2 - 17x + 2] \end{bmatrix}$$

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Real02 for No.10945

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 5x^2 - 3x + 5, c = 1] \\ .2 = [p(x) = x^4 + 4x^3 - 2x + 2, c = -2] \\ .3 = \left[p(x) = 6x^4 + 9x^3 - 4x, c = \frac{-3}{2}\right] \\ .4 = \left[p(x) = 3x^2 + 8x - 14 + 15x^4 - 20x^3, c = \frac{4}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 1, a(x) = x^4 + 3x^3 + mx - 3x^2 + 5] \\ .2 = [b(x) = x - 2, a(x) = mx^3 + x^4 - 4x^2 + x - 2] \\ .3 = [b(x) = 2x - 5, a(x) = 6x - 13 + 2x^4 - 3x^3 + mx^2, r = 2] \\ .4 = [b(x) = x - m, a(x) = x^2 - 8x + 5, r = -2] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + x^2 - 9x - 9] \\ .2 = [p(x) = x^4 - 5x^2 + 4] \\ .3 = [p(x) = x^3 + 8] \\ .4 = [p(x) = x^4 - 625] \\ .5 = [p(x) = x^4 - 10x^3 + 25x^2 - 36] \\ .6 = [p(x) = x^4 - 8x^3 + 20x^2 - 16x + 3] \\ .7 = [p(x) = 16x^3 + 72x^2 + 77x + 15] \\ .8 = [p(x) = 16x^4 - 40x^3 - 3x^2 + 43x - 10] \end{bmatrix}$$

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Real02 for No.10954

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 3x^3 + 2x + 1, c = 3] \\ .2 = [p(x) = x^4 - 5x^2 - 5x - 3, c = -1] \\ .3 = \left[p(x) = 9x^4 + 12x^3 + 4, c = \frac{-4}{3}\right] \\ .4 = \left[p(x) = 2x^3 - 5x^2 - 8x + 27, c = \frac{5}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 2, a(x) = x^4 - 3x^3 + 5x^2 + m] \\ .2 = [b(x) = x + 1, a(x) = mx^3 + x^4 + 4x + 4] \\ .3 = [b(x) = x - m, a(x) = x^2 - 2x - 11, r = -3] \\ .4 = [b(x) = 3x - 2, a(x) = 3x^4 - 2x^3 - 6x + 7 + mx^2, r = 3] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 4x^2 - 9x - 36] \\ .2 = [p(x) = x^4 - 29x^2 + 100] \\ .3 = [p(x) = x^3 - 8] \\ .4 = [p(x) = x^4 - 625] \\ .5 = [p(x) = x^4 + x^3 - 8x^2 - 5x + 3] \\ .6 = [p(x) = x^4 - 3x^3 - 21x^2 + 83x - 60] \\ .7 = [p(x) = 15x^3 - 7x^2 - 24x + 16] \\ .8 = [p(x) = 20x^4 - 93x^3 + 82x^2 + 57x - 18] \end{bmatrix}$$

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Real02 for No.10966

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 2x^3 - 3x - 1, c = 2] \\ .2 = [p(x) = x^4 + x^3 + x^2 + 2, c = -1] \\ .3 = \left[p(x) = -6x^2 + 2x + 9x^4 - 3x^3 + 4, c = \frac{1}{3}\right] \\ .4 = \left[p(x) = -6x - 4 + 2x^4 + 3x^3, c = \frac{-3}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 1, a(x) = m x^3 + x^4 + 3x + 7] \\ .2 = [b(x) = x - 3, a(x) = x^4 - 3x^3 + m x - 2x^2 + 18] \\ .3 = [b(x) = 3x + 4, a(x) = 9x^4 + 18x^3 + 8x^2 + 3x + m, r = 2] \\ .4 = [b(x) = x - m, a(x) = x^2 + 4x + 7, r = 4] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 - 2x^2 - x + 2] \\ .2 = [p(x) = x^4 - 10x^2 + 9] \\ .3 = [p(x) = x^3 - 1] \\ .4 = [p(x) = x^4 - 1] \\ .5 = [p(x) = x^4 + 4x^3 - 2x^2 - 17x - 6] \\ .6 = [p(x) = x^4 - 9x^3 + 28x^2 - 36x + 16] \\ .7 = [p(x) = 4x^3 + 4x^2 - 23x - 30] \\ .8 = [p(x) = 20x^4 + 107x^3 + 197x^2 + 144x + 36] \end{bmatrix}$$

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Real02 for No.11154

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 2x^3 - 2x^2 + 5, c = 3] \\ .2 = [p(x) = x^4 + x^3 - x + 3, c = -2] \\ .3 = \left[p(x) = -10x + 1 + 5x^2 + 6x^3, c = \frac{-3}{2}\right] \\ .4 = \left[p(x) = 3x^3 - 11x^2 + 12x + 2, c = \frac{2}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 1, a(x) = x^4 - x^2 + m + 3x] \\ .2 = [b(x) = x + 3, a(x) = m x^3 + x^4 + 2x^2 + 9] \\ .3 = [b(x) = x - m, a(x) = x^2 - 6x - 1, r = -6] \\ .4 = [b(x) = 2x - 1, a(x) = x + 8x^4 - 4x^3 - 5 + m x^2, r = -4] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 - 3x^2 - 16x + 48] \\ .2 = [p(x) = x^4 - 29x^2 + 100] \\ .3 = [p(x) = x^3 + 27] \\ .4 = [p(x) = x^4 - 81] \\ .5 = [p(x) = x^4 + 10x^3 + 27x^2 + 2x - 40] \\ .6 = [p(x) = x^4 - 3x^3 - 11x^2 + 19x - 6] \\ .7 = [p(x) = 15x^3 - 43x^2 - 14x + 24] \\ .8 = [p(x) = 20x^4 - 27x^3 - 71x^2 + 108x - 36] \end{bmatrix}$$

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Real02 for No.11191

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 5x^3 + 5x^2 - 2, c = 3] \\ .2 = [p(x) = x^4 + 4x^3 + 3x^2 - 3, c = -2] \\ .3 = \left[p(x) = -2x + 4 + 2x^4 + x^3 - 6x^2, c = \frac{3}{2}\right] \\ .4 = \left[p(x) = 6x^4 + 8x^3 - 6x^2 - 17x - 17, c = \frac{-4}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 1, a(x) = x^4 - 5x^3 + mx + 1] \\ .2 = [b(x) = x + 3, a(x) = mx^3 + x^4 - 4x + 15] \\ .3 = [b(x) = 2x - 3, a(x) = 4x^2 - 4x + 4x^4 - 6x^3 + m, r = -6] \\ .4 = [b(x) = x - m, a(x) = x^2 - 2x - 8, r = -5] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + x^2 - 16x - 16] \\ .2 = [p(x) = x^4 - 20x^2 + 64] \\ .3 = [p(x) = x^3 + 64] \\ .4 = [p(x) = x^4 - 256] \\ .5 = [p(x) = x^4 + 4x^3 + 2x^2 - x + 6] \\ .6 = [p(x) = x^4 + 4x^3 - 15x^2 - 58x - 40] \\ .7 = [p(x) = 12x^3 + 31x^2 + 24x + 5] \\ .8 = [p(x) = 12x^4 - x^3 - 88x^2 - 61x + 30] \end{bmatrix}$$

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Real02 for No.11309

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 + 2x^2 + 5x + 4, c = 1] \\ .2 = [p(x) = x^4 + 3x^3 - 2x - 5, c = -3] \\ .3 = \left[p(x) = 2x^3 - x^2 + 8x + 3, c = \frac{1}{2}\right] \\ .4 = \left[p(x) = 6x + 15 + 6x^4 + 10x^3, c = \frac{-5}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 3, a(x) = mx^3 + x^4 + 4x^2 + 18] \\ .2 = [b(x) = x + 2, a(x) = x^4 + 5x^3 + mx + 5x^2 + 4] \\ .3 = [b(x) = 2x - 3, a(x) = 6x + 8x^3 + 10 + mx^2, r = 1] \\ .4 = [b(x) = x - m, a(x) = x^2 + 10x + 27, r = 6] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 4x^2 - 4x - 16] \\ .2 = [p(x) = x^4 - 5x^2 + 4] \\ .3 = [p(x) = x^3 + 1] \\ .4 = [p(x) = x^4 - 16] \\ .5 = [p(x) = x^4 - 3x^3 - 21x^2 + 83x - 60] \\ .6 = [p(x) = x^4 - 7x^3 + 18x^2 - 22x + 12] \\ .7 = [p(x) = 10x^3 - 13x^2 - 20x + 12] \\ .8 = [p(x) = 4x^4 + 8x^3 - 17x^2 - 12x + 9] \end{bmatrix}$$

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Real02 for No.12037

$$No01 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^4 - 2x^2 - 4x - 2, c = 1] \\ .2 = [\mathrm{p}(x) = x^4 + 2x^3 - x^2 - 1, c = \text{-}2] \\ .3 = \left[\mathrm{p}(x) = 18x + 7 - 28x^2 + 8x^3, c = \frac{5}{2}\right] \\ .4 = \left[\mathrm{p}(x) = 6x^3 + 10x^2 + 3, c = \frac{-5}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [\mathrm{b}(x) = x - 2, \mathrm{a}(x) = m x^3 + x^4 + 3x^2 - 12] \\ .2 = [\mathrm{b}(x) = x + 1, \mathrm{a}(x) = x^4 - x^2 + m - 4x] \\ .3 = [\mathrm{b}(x) = 2x + 3, \mathrm{a}(x) = 8x^3 + 14x^2 + 14 + m x, r = 2] \\ .4 = [\mathrm{b}(x) = x - m, \mathrm{a}(x) = x^2 + x - 23, r = 7] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^3 + 3x^2 - 16x - 48] \\ .2 = [\mathrm{p}(x) = x^4 - 26x^2 + 25] \\ .3 = [\mathrm{p}(x) = x^3 + 1] \\ .4 = [\mathrm{p}(x) = x^4 - 1] \\ .5 = [\mathrm{p}(x) = x^4 - 23x^2 + 18x + 40] \\ .6 = [\mathrm{p}(x) = x^4 - 4x^3 - 6x^2 + 11x - 2] \\ .7 = [\mathrm{p}(x) = 8x^3 - 6x^2 - 59x + 15] \\ .8 = [\mathrm{p}(x) = 6x^4 + x^3 - 39x^2 - 49x - 15] \end{bmatrix}$$

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Real02 for No.12454

$$No01 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^4 - 2x^3 - 5x^2 + 1, c = 3] \\ .2 = [\mathrm{p}(x) = x^4 - x^2 - 2x + 1, c = \text{-}1] \\ .3 = \left[\mathrm{p}(x) = -2x + 12 + 4x^4 - 10x^3, c = \frac{5}{2}\right] \\ .4 = \left[\mathrm{p}(x) = 3x^4 + x^3 - 7, c = \frac{-1}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [\mathrm{b}(x) = x - 2, \mathrm{a}(x) = x^4 - 2x^2 + m - x] \\ .2 = [\mathrm{b}(x) = x + 3, \mathrm{a}(x) = x^4 + m x^2 + 2x^3 + 3x - 18] \\ .3 = [\mathrm{b}(x) = x - m, \mathrm{a}(x) = x^2 - x - 32, r = \text{-}2] \\ .4 = [\mathrm{b}(x) = 2x + 3, \mathrm{a}(x) = -6x - 16 - 12x^2 + 6x^4 + m x^3, r = \text{-}7] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^3 + 4x^2 - 9x - 36] \\ .2 = [\mathrm{p}(x) = x^4 - 29x^2 + 100] \\ .3 = [\mathrm{p}(x) = x^3 - 125] \\ .4 = [\mathrm{p}(x) = x^4 - 625] \\ .5 = [\mathrm{p}(x) = x^4 + 4x^3 - 17x^2 - 24x + 36] \\ .6 = [\mathrm{p}(x) = x^4 - 7x^3 + 8x^2 + 13x - 3] \\ .7 = [\mathrm{p}(x) = 10x^3 + 13x^2 - 13x + 2] \\ .8 = [\mathrm{p}(x) = 12x^4 - 5x^3 - 46x^2 + 29x + 10] \end{bmatrix}$$

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Real02 for No.12483

$$No01 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^4 - 5x^2 + 4x + 1, c = 2] \\ .2 = [\mathrm{p}(x) = x^4 + 4x^3 + 2x^2 + 5, c = -3] \\ .3 = \left[\mathrm{p}(x) = -7x + 15 - 6x^2 + 10x^4 + 25x^3, c = \frac{-5}{2}\right] \\ .4 = \left[\mathrm{p}(x) = -29x^3 + 12x^2 + 15x^4 - 7, c = \frac{4}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [\mathrm{b}(x) = x - 1, \mathrm{a}(x) = x^4 + m x^2 + 3x - 7] \\ .2 = [\mathrm{b}(x) = x + 3, \mathrm{a}(x) = m x^3 + x^4 + 4x^2 - 9] \\ .3 = [\mathrm{b}(x) = 3x + 1, \mathrm{a}(x) = 3x^2 + 12x^4 + 4x^3 - 1 + m x, r = -1] \\ .4 = [\mathrm{b}(x) = x - m, \mathrm{a}(x) = x^2 - 11x + 23, r = -7] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^3 - 3x^2 - x + 3] \\ .2 = [\mathrm{p}(x) = x^4 - 13x^2 + 36] \\ .3 = [\mathrm{p}(x) = x^3 - 27] \\ .4 = [\mathrm{p}(x) = x^4 - 256] \\ .5 = [\mathrm{p}(x) = x^4 + x^3 - 3x^2 + 7x - 6] \\ .6 = [\mathrm{p}(x) = x^4 + x^3 - 18x^2 - 16x + 32] \\ .7 = [\mathrm{p}(x) = 15x^3 + x^2 - 46x + 24] \\ .8 = [\mathrm{p}(x) = 10x^4 - 17x^3 - 19x^2 + 20x + 12] \end{bmatrix}$$

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Real02 for No.12557

$$No01 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^4 - 4x^3 + 4x + 3, c = 3] \\ .2 = [\mathrm{p}(x) = x^4 - x^2 - 5x + 3, c = -1] \\ .3 = \left[\mathrm{p}(x) = -8x + 8 + 6x^3 - 5x^2, c = \frac{3}{2}\right] \\ .4 = \left[\mathrm{p}(x) = 6x^4 + 8x^3 - 6x - 14, c = \frac{-4}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [\mathrm{b}(x) = x + 3, \mathrm{a}(x) = x^4 + 3x^3 + m x - 12] \\ .2 = [\mathrm{b}(x) = x - 1, \mathrm{a}(x) = x^4 + m x^2 + x^3 - 5x + 3] \\ .3 = [\mathrm{b}(x) = x - m, \mathrm{a}(x) = x^2 + 2x - 3, r = 5] \\ .4 = [\mathrm{b}(x) = 3x + 1, \mathrm{a}(x) = -x^2 + 15x^4 + 6x - 5 + m x^3, r = -7] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^3 - 4x^2 - x + 4] \\ .2 = [\mathrm{p}(x) = x^4 - 13x^2 + 36] \\ .3 = [\mathrm{p}(x) = x^3 + 125] \\ .4 = [\mathrm{p}(x) = x^4 - 1] \\ .5 = [\mathrm{p}(x) = x^4 + 5x^3 - x^2 - 23x - 6] \\ .6 = [\mathrm{p}(x) = x^4 - 8x^3 + 7x^2 + 36x - 36] \\ .7 = [\mathrm{p}(x) = 8x^3 - 2x^2 - 13x - 3] \\ .8 = [\mathrm{p}(x) = 10x^4 - 21x^3 - 36x^2 + 77x - 30] \end{bmatrix}$$

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Real02 for No.12637

$$No01 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^4 - 4x^3 + 5x^2 + 2, c = 3] \\ .2 = [\mathrm{p}(x) = x^4 + 3x^3 - x + 5, c = -2] \\ .3 = \left[\mathrm{p}(x) = 8x^2 - 2x - 3, c = \frac{1}{2}\right] \\ .4 = \left[\mathrm{p}(x) = -8x - 2 + 12x^2, c = \frac{-1}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [\mathrm{b}(x) = x - 3, \mathrm{a}(x) = x^4 + m\,x - 5x^2 - 24] \\ .2 = [\mathrm{b}(x) = x + 1, \mathrm{a}(x) = x^4 - 3x^3 + m + 5x] \\ .3 = [\mathrm{b}(x) = x - m, \mathrm{a}(x) = x^2 + 12x + 41, r = 6] \\ .4 = [\mathrm{b}(x) = 2x - 3, \mathrm{a}(x) = -4x - 1 + 10x^4 + m\,x^3, r = -7] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^3 - 4x^2 - 4x + 16] \\ .2 = [\mathrm{p}(x) = x^4 - 25x^2 + 144] \\ .3 = [\mathrm{p}(x) = x^3 - 8] \\ .4 = [\mathrm{p}(x) = x^4 - 16] \\ .5 = [\mathrm{p}(x) = x^4 + 5x^3 - 16x^2 - 68x - 48] \\ .6 = [\mathrm{p}(x) = x^4 - 8x^3 + 18x^2 - 13x + 2] \\ .7 = [\mathrm{p}(x) = 8x^3 + 22x^2 + 3x - 18] \\ .8 = [\mathrm{p}(x) = 15x^4 - 23x^3 - 34x^2 + 28x + 24] \end{bmatrix}$$

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Real02 for No.12689

$$No01 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^4 - 3x^2 - 5x + 2, c = 2] \\ .2 = [\mathrm{p}(x) = x^4 + 4x^3 - x + 5, c = -3] \\ .3 = \left[\mathrm{p}(x) = 6x^4 - 2x^3 - 7, c = \frac{1}{3}\right] \\ .4 = \left[\mathrm{p}(x) = -2x - 18 + 2x^3 + 7x^2, c = \frac{-3}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [\mathrm{b}(x) = x - 1, \mathrm{a}(x) = x^4 + m\,x^2 - 3x + 7] \\ .2 = [\mathrm{b}(x) = x + 3, \mathrm{a}(x) = x^4 + 3x^3 + m - 3x] \\ .3 = [\mathrm{b}(x) = 2x + 3, \mathrm{a}(x) = 8x^3 + 14x^2 - 4 + m\,x, r = -7] \\ .4 = [\mathrm{b}(x) = x - m, \mathrm{a}(x) = x^2 - 11x + 32, r = 2] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^3 - 4x^2 - 4x + 16] \\ .2 = [\mathrm{p}(x) = x^4 - 20x^2 + 64] \\ .3 = [\mathrm{p}(x) = x^3 - 1] \\ .4 = [\mathrm{p}(x) = x^4 - 1] \\ .5 = [\mathrm{p}(x) = x^4 + 7x^3 + 18x^2 + 22x + 12] \\ .6 = [\mathrm{p}(x) = x^4 + 3x^3 - 7x^2 - 27x - 18] \\ .7 = [\mathrm{p}(x) = 8x^3 - 10x^2 - 39x - 9] \\ .8 = [\mathrm{p}(x) = 8x^4 - 22x^3 - 47x^2 + 133x - 30] \end{bmatrix}$$

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Real02 for No.13349

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 3x^3 + x^2 - 3, c = 3] \\ .2 = [p(x) = x^4 + x^3 + 3x + 4, c = -1] \\ .3 = \left[p(x) = -20x^3 + 8x^2 + 12x^4 - 9x + 3, c = \frac{2}{3}\right] \\ .4 = \left[p(x) = 8x^2 + 4x - 4, c = \frac{-1}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 2, a(x) = x^4 - 3x^3 + mx + x^2 + 4] \\ .2 = [b(x) = x + 1, a(x) = mx^3 + x^4 + x - 5] \\ .3 = [b(x) = x - m, a(x) = x^2 + 9x + 18, r = 4] \\ .4 = [b(x) = 3x + 4, a(x) = 2x + 3 + 9x^3 + mx^2, r = -5] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 - x^2 - 4x + 4] \\ .2 = [p(x) = x^4 - 10x^2 + 9] \\ .3 = [p(x) = x^3 + 125] \\ .4 = [p(x) = x^4 - 625] \\ .5 = [p(x) = x^4 - 4x^3 - 13x^2 + 64x - 48] \\ .6 = [p(x) = x^4 + 8x^3 + 22x^2 + 23x + 6] \\ .7 = [p(x) = 20x^3 + 9x^2 - 50x + 24] \\ .8 = [p(x) = 9x^4 + 9x^3 - 55x^2 + 7x + 30] \end{bmatrix}$$

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Real02 for No.13519

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 5x^2 - 4x - 5, c = 3] \\ .2 = [p(x) = x^4 + 3x^3 + x^2 + 2, c = -2] \\ .3 = \left[p(x) = 6x^4 + 2x^3 - 6x - 8, c = \frac{-1}{3}\right] \\ .4 = \left[p(x) = 4x^4 + 6x^3 - 4x^2 + 4x - 1, c = \frac{1}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 2, a(x) = mx^3 + x^4 + 4x^2 + 8] \\ .2 = [b(x) = x + 1, a(x) = x^4 + mx - 3x^2 + 5] \\ .3 = [b(x) = x - m, a(x) = x^2 - x - 9, r = -3] \\ .4 = [b(x) = 3x - 1, a(x) = 6x^4 - 2x^3 - 12x + m, r = 1] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 4x^2 - 25x - 100] \\ .2 = [p(x) = x^4 - 41x^2 + 400] \\ .3 = [p(x) = x^3 - 64] \\ .4 = [p(x) = x^4 - 625] \\ .5 = [p(x) = x^4 - 8x^3 + 17x^2 + 2x - 24] \\ .6 = [p(x) = x^4 + x^3 - 3x^2 + 7x - 6] \\ .7 = [p(x) = 20x^3 + 3x^2 - 14x + 3] \\ .8 = [p(x) = 10x^4 - 49x^3 + 57x^2 + 9x - 27] \end{bmatrix}$$

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Real02 for No.14276

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 3x^3 - x - 4, c = 3] \\ .2 = [p(x) = x^4 - 5x^2 - x + 5, c = -1] \\ .3 = \left[p(x) = 28x - 24 + 2x^4 - 5x^3 - 8x^2, c = \frac{5}{2} \right] \\ .4 = \left[p(x) = -3x + 3 + 12x^4 + 4x^3, c = \frac{-1}{3} \right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 1, a(x) = x^4 - 4x^3 - x^2 + m] \\ .2 = [b(x) = x + 2, a(x) = x^4 + 4x^3 + m\,x + 10] \\ .3 = [b(x) = x - m, a(x) = x^2 - 2x - 8, r = 7] \\ .4 = [b(x) = 3x - 2, a(x) = 3x + 9x^4 - 6x^3 + 8 + m\,x^2, r = 6] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 - 3x^2 - 4x + 12] \\ .2 = [p(x) = x^4 - 41x^2 + 400] \\ .3 = [p(x) = x^3 - 1] \\ .4 = [p(x) = x^4 - 81] \\ .5 = [p(x) = x^4 - 10x^3 + 17x^2 + 52x - 60] \\ .6 = [p(x) = x^4 + x^3 - 9x^2 + 5x + 2] \\ .7 = [p(x) = 6x^3 + 29x^2 + 36x + 9] \\ .8 = [p(x) = 8x^4 + 18x^3 - 27x^2 - 67x - 30] \end{bmatrix}$$

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Real02 for No.14331

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 4x^3 + 5x^2 - 2, c = 2] \\ .2 = [p(x) = x^4 + x^3 + 2x - 4, c = -1] \\ .3 = \left[p(x) = -3 + 8x^2, c = \frac{-1}{2} \right] \\ .4 = \left[p(x) = 12x^2 + 2x + 6x^4 - 2x^3 - 7, c = \frac{1}{3} \right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 1, a(x) = x^4 + m\,x - 3x^2 - 1] \\ .2 = [b(x) = x - 3, a(x) = x^4 - 2x^3 + m - 4x] \\ .3 = [b(x) = 3x - 1, a(x) = -3x^2 - 5x + 12x^4 + 7 + m\,x^3, r = 5] \\ .4 = [b(x) = x - m, a(x) = x^2 - 12x + 41, r = 6] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 + 4x^2 - 4x - 16] \\ .2 = [p(x) = x^4 - 17x^2 + 16] \\ .3 = [p(x) = x^3 + 8] \\ .4 = [p(x) = x^4 - 625] \\ .5 = [p(x) = x^4 + 2x^3 - 31x^2 - 32x + 60] \\ .6 = [p(x) = x^4 - 4x^3 - 6x^2 + 11x - 2] \\ .7 = [p(x) = 10x^3 + 33x^2 + 23x - 6] \\ .8 = [p(x) = 20x^4 - 67x^3 + 83x^2 - 45x + 9] \end{bmatrix}$$

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Real02 for No.14360

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 2x^2 + 5x - 5, c = 2] \\ .2 = [p(x) = x^4 + 4x^3 - 2x + 1, c = -3] \\ .3 = \left[p(x) = 15x^4 + 20x^3 + 9x + 10, c = \frac{-4}{3}\right] \\ .4 = \left[p(x) = 8x^4 - 4x^3 - 4x^2 - 6x - 3, c = \frac{1}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x - 3, a(x) = x^4 - 2x^3 + mx - 15] \\ .2 = [b(x) = x + 2, a(x) = x^4 + mx^2 - 4x - 8] \\ .3 = [b(x) = 2x + 1, a(x) = 8x^2 + 10x^4 + 5x^3 + m, r = -5] \\ .4 = [b(x) = x - m, a(x) = x^2 - 3x - 24, r = 4] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 - 3x^2 - 4x + 12] \\ .2 = [p(x) = x^4 - 20x^2 + 64] \\ .3 = [p(x) = x^3 - 125] \\ .4 = [p(x) = x^4 - 1] \\ .5 = [p(x) = x^4 - x^3 - 19x^2 - 11x + 30] \\ .6 = [p(x) = x^4 - x^3 - 15x^2 - 7x + 6] \\ .7 = [p(x) = 8x^3 + 18x^2 - 11x - 15] \\ .8 = [p(x) = 16x^4 - 40x^3 - 3x^2 + 43x - 10] \end{bmatrix}$$

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Real02 for No.14380

$$No01 = \begin{bmatrix} .1 = [p(x) = x^4 - 5x^2 + 5x - 1, c = 2] \\ .2 = [p(x) = x^4 + 5x^3 + 5x^2 + 4, c = -3] \\ .3 = \left[p(x) = -6x + 4 + 8x^4 - 12x^3, c = \frac{3}{2}\right] \\ .4 = \left[p(x) = 3x^3 + 14x^2 + 15x - 6, c = \frac{-5}{3}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [b(x) = x + 3, a(x) = x^4 + mx^2 + 4x^3 - 9] \\ .2 = [b(x) = x - 2, a(x) = x^4 + x^2 + m - 2x] \\ .3 = [b(x) = 2x + 1, a(x) = -2x^2 + 8x^4 - 8x - 9 + mx^3, r = -5] \\ .4 = [b(x) = x - m, a(x) = x^2 - 7x + 8, r = 2] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [p(x) = x^3 - 3x^2 - x + 3] \\ .2 = [p(x) = x^4 - 41x^2 + 400] \\ .3 = [p(x) = x^3 + 8] \\ .4 = [p(x) = x^4 - 1] \\ .5 = [p(x) = x^4 - x^3 - 19x^2 - 11x + 30] \\ .6 = [p(x) = x^4 - 3x^3 + x^2 - 5x + 6] \\ .7 = [p(x) = 10x^3 + 9x^2 - 3x - 2] \\ .8 = [p(x) = 15x^4 - 13x^3 - 13x^2 + 13x - 2] \end{bmatrix}$$

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Real02 for No.14393

$$No01 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^4 - 3x^3 - 2x^2 - 4, c = 1] \\ .2 = [\mathrm{p}(x) = x^4 + 2x^3 - 4x^2 - 2, c = -3] \\ .3 = \left[\mathrm{p}(x) = 3x^2 + 5x + 12x^4 + 8x^3 + 9, c = \frac{-2}{3}\right] \\ .4 = \left[\mathrm{p}(x) = -16x^3 - 10x^2 + 6x - 8 + 8x^4, c = \frac{5}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [\mathrm{b}(x) = x + 1, \mathrm{a}(x) = x^4 + m x^2 - 5x^3 + x - 5] \\ .2 = [\mathrm{b}(x) = x - 3, \mathrm{a}(x) = x^4 - 2x^3 + m x - 3x^2] \\ .3 = [\mathrm{b}(x) = x - m, \mathrm{a}(x) = x^2 - x - 1, r = 5] \\ .4 = [\mathrm{b}(x) = 3x + 2, \mathrm{a}(x) = 2x - 3 + 12x^2 + m x^3, r = 1] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^3 - x^2 - 4x + 4] \\ .2 = [\mathrm{p}(x) = x^4 - 26x^2 + 25] \\ .3 = [\mathrm{p}(x) = x^3 - 27] \\ .4 = [\mathrm{p}(x) = x^4 - 16] \\ .5 = [\mathrm{p}(x) = x^4 + 9x^3 + 24x^2 + 19x + 3] \\ .6 = [\mathrm{p}(x) = x^4 - 10x^3 + 25x^2 - 36] \\ .7 = [\mathrm{p}(x) = 20x^3 - 13x^2 - 13x + 6] \\ .8 = [\mathrm{p}(x) = 12x^4 + 41x^3 + 20x^2 - 43x - 30] \end{bmatrix}$$

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Real02 for No.14418

$$No01 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^4 + x^3 - 5x + 5, c = 2] \\ .2 = [\mathrm{p}(x) = x^4 + 4x^3 + 5x^2 - 1, c = -3] \\ .3 = \left[\mathrm{p}(x) = -2x + 7 - 12x^2 + 9x^4 + 6x^3, c = \frac{-2}{3}\right] \\ .4 = \left[\mathrm{p}(x) = 4x + 1 + 2x^4 - x^3, c = \frac{1}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [\mathrm{b}(x) = x - 3, \mathrm{a}(x) = x^4 - 3x^3 + m - x] \\ .2 = [\mathrm{b}(x) = x + 1, \mathrm{a}(x) = x^4 + 5x^3 + m x - x^2 + 5] \\ .3 = [\mathrm{b}(x) = 3x + 5, \mathrm{a}(x) = -20x + 3x^4 + 5x^3 + 5 + m x^2, r = 5] \\ .4 = [\mathrm{b}(x) = x - m, \mathrm{a}(x) = x^2 + 2x - 1, r = 2] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^3 + 5x^2 - 16x - 80] \\ .2 = [\mathrm{p}(x) = x^4 - 13x^2 + 36] \\ .3 = [\mathrm{p}(x) = x^3 - 64] \\ .4 = [\mathrm{p}(x) = x^4 - 81] \\ .5 = [\mathrm{p}(x) = x^4 + 5x^3 - 5x^2 - 45x - 36] \\ .6 = [\mathrm{p}(x) = x^4 + x^3 - 4x^2 + 5x - 3] \\ .7 = [\mathrm{p}(x) = 20x^3 - x^2 - 17x + 4] \\ .8 = [\mathrm{p}(x) = 8x^4 - 18x^3 + x^2 + 18x - 9] \end{bmatrix}$$

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Real02 for No.14419

$$No01 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^4 - 2x^3 + x^2 + 4, c = 1] \\ .2 = [\mathrm{p}(x) = x^4 + 3x^3 + x^2 - 2, c = -3] \\ .3 = \left[\mathrm{p}(x) = 6x - 17 + 9x^4 - 15x^3, c = \frac{5}{3}\right] \\ .4 = \left[\mathrm{p}(x) = 6x + 16 + 6x^4 + 23x^3 + 20x^2, c = \frac{-5}{2}\right] \end{bmatrix}$$

$$No02 = \begin{bmatrix} .1 = [\mathrm{b}(x) = x - 2, \mathrm{a}(x) = x^4 + x^3 + m - 4x] \\ .2 = [\mathrm{b}(x) = x + 1, \mathrm{a}(x) = x^4 + mx - x^2 - 5] \\ .3 = [\mathrm{b}(x) = x - m, \mathrm{a}(x) = x^2 - 9x + 12, r = -6] \\ .4 = [\mathrm{b}(x) = 3x + 4, \mathrm{a}(x) = -5x^2 - 15x + mx^3, r = 4] \end{bmatrix}$$

$$No03 = \begin{bmatrix} .1 = [\mathrm{p}(x) = x^3 - x^2 - 25x + 25] \\ .2 = [\mathrm{p}(x) = x^4 - 29x^2 + 100] \\ .3 = [\mathrm{p}(x) = x^3 - 125] \\ .4 = [\mathrm{p}(x) = x^4 - 625] \\ .5 = [\mathrm{p}(x) = x^4 + 8x^3 + 17x^2 - 2x - 24] \\ .6 = [\mathrm{p}(x) = x^4 + 2x^3 + x + 2] \\ .7 = [\mathrm{p}(x) = 6x^3 - 25x^2 + 21x + 10] \\ .8 = [\mathrm{p}(x) = 10x^4 - 27x^3 - 60x^2 + 163x - 30] \end{bmatrix}$$

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