CS318 – P06 Polynomial Sample Run

Items highlighted in yellow are example entries or statements. You should test these as well as other combinations.

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*** P07 Polynomial Driver Sample Run ***

LINE 15 * Entry for p1: 1 2 3 4 5 6 0 =>  1 2 3 4 5 6 0
p1:
Number terms 3
5x^6 + 3x^4 + x^2

LINE 20 * Entry for p2: 1 2 3 4 5 6 0 =>  1 2 3 4 5 6 0
p2:
Number terms 3
5x^6 + 3x^4 + x^2

LINE 25 * (p1 == p2) *: true

LINE 28 * p1 += p2 *:
Number terms 3
10x^6 + 6x^4 + 2x^2

LINE 32 * p1 -= p2 *:
Number terms 3
5x^6 + 3x^4 + x^2

LINE 36 * p1 = mono(-10, 7) *:
Number terms 1
-10x^7

LINE 40 * p1 -= mono(-10, 7) *:
Number terms 0


LINE 44 * p1 += mono(-10, 7) *:
Number terms 1
-10x^7

LINE 48 * p1 = poly(mono(-10, 7)) - poly(mono(-10,7)) + poly(mono(-10,7)) *:
Number terms 1
-10x^7

LINE 53 * Entry for p3: 1 2 5 1 1 0 0 =>  1 2 5 1 1 0 0
p3:
Number terms 3
x^2 + 5x + 1
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LINE 57 * Entry for p4: 3 2 -10 1 15 0 0 =>  3 2 -10 1 15 0 0
p4:
Number terms 3
3x^2 - 10x + 15

LINE 62 * p3 *= p4 *:
Number terms 5
3x^4 + 5x^3 - 32x^2 + 65x + 15

LINE 64 * (p3 == p4) *: false

LINE 67 * p5 = move(p2) *:
Number terms 3
5x^6 + 3x^4 + x^2

LINE 71 * Entry for p6: 1 2 -3 4 -1 6 0 =>   1 2 -3 4 -1 6 0
p6:
Number terms 3
-x^6 - 3x^4 + x^2

LINE 76 * result = p6.evaluate(2) *: -108
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