CS318 – P06 Polynomial – Test Output

LINE 15 \* Entry for p1 (1 2 3 4 5 6 0) \*: 1 2 3 4 5 6 0

**p1: 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: 5x^6 + 3x^4 + x^2**

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

LINE 28 \* p1 += p2 \*: **10x^6 + 6x^4 + 2x^2**

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

LINE 36 \* p1 = mono(-10, 7) \*: **-10x^7**

LINE 40 \* p1 -= mono(-10, 7) \*:

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

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

LINE 53 \* Entry for p3 (1 2 5 1 1 0 0) \*: 1 2 5 1 1 0 0

p3: **x^2 + 5x + 1**

LINE 57 \* Entry for p4 (3 2 -10 1 15 0 0) \*: 3 2 -10 1 15 0 0

p4: **3x^2 - 10x + 15**

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

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

LINE 67 \* p5 = move(p2) \*: **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: **-x^6 - 3x^4 + x^2**

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