Name _____

Section _____
Due: Tuesday, February 26, 2013

Chapter 13 Homework Packet #2

§13-3

Add the polynomials.

1) $(5m^2 + 3m^3 - 8m^2 + 12m) + (4m^2 - 3 + 27m)$

2) $\left(4x^2 + 3x - 7\right) + \left(2x^2 - 5x + 12\right)$

3) $\left(6h + 6\right) + \left(3h^2 + 4\right) + \left(2h - 1\right)$

4) $\left(2xy^2 - 4x^2y - 3xy\right) + \left(2x^2y + 5xy - xy^2\right)$

5) $\left(4n^2 + 6\right) + \left(3n^2 - 2\right) + \left(8 + 6n^2\right)$

6) $(4d^4 - 7d^2e + 12e^2) + (5d^2e - 8d^4 + 15) + (9d^7 - 32 + 12d^2e)$

7) $(51h - 32h^2 + 16) + (67h + 27h^2 - 5h^3)$

8) $63f + (21fg^2 - 3f^2g) + (9 - 17g) + (16f - 34g - 8 + 22fg^2 - 6f^2g)$

§13-4

Subtract the polynomials.

9) $\left(x^2-3\right)-\left(3-4x^2\right)$

10) $\left(w^2-4w+6\right)-\left(2w^2+8w-8\right)$

11) $\left(2x^2+7x-8\right)-\left(6x^2-7x+4\right)$

12) $\left(4ab^2-5ab+7a^2b\right)-\left(3a^2b+6ab\right)$

13) $\left(4p^3q^2-5p^2q^2\right)-\left(2pq^2+5p^3q^2\right)$

14) $(7m^6+3n^4)-(15m^3+4n^4)-(-8m^3-n^4)-(12m^6+7n)$

15) $(10b^2-3a)-(5b+10a-8b^2)-(21a^2+ab-3b^2)+(19a^2-3b^2)$

§13-5

16) $x^2\left(-3x^2y^3\right)$

17) $6x\left(-x^5+2x^3+x\right)$

18) $h^2k\left(2hk^2-hk+7k\right)$

19) $8m^3n(3mn-5n^2+2)$

20) $7(-16t^2+20t-15)$

21) $x^9(-3x^2+2x)-5(x^2+1)$

§13-6

22) $(w+1)(w-3)$

23) $(1-y)(2-y)$

24) $(2t+2)(2t-2)$

25) $(2+q)^2$

26) $(m-1)^2$

27) $(2a+b)(a+2b)$

28) $(12+n)(12-n)$

29) $(3b-2a)(3b+2a)$

30) $(5m+1)(-5m+2)$

31) $(7m-13)^2$