MAT-121
Assignment 2

Ch.6

10.) (36x^2y^2 + 7x^2y + 36y^2x)^2 7x^2y(4x+y) = 1 + 5x+x^2)

14.) (x+5)(2x-3) + (2x-8)(2x-3) = (2x-3) (x+5) + (2x-8)] = (2x-3)(x+8)

22.) (x)(x-5)x^2 (4x^2+x+7)^2 = 5x(3+x^2) — x(3)(x+x^2) = (3-x^2)(3+x^2)

26.) 9y^2 -16y+8 = (3y-4)(3y-2)

44.) (15x^2 -x+6)(x+1)-(15x)^2 = 5x(3x^2-2x)(x+1)-(15x)^2 = 5x(3x-1)x(3x+1) = 5x(3x-1)x(3x)^2

52.) (x+2)^2-25 = (x+2)^2-5^2 = (x+2+5)(x+2-5)

68.) (8x+7)^2 – 27 = (8x+7)(8x+7)-27 = 64^2+56x+56x+49)x-27 = (64^2+56x+56x+49)x-27 = 64^2+56x^2+56x^2+49x+56x-27
27
64^2+56x^2+27x = 64x^2+56x+27)

80.) 6(x-3)^2 = 7(x-3)-3 = (x-3)
6x^2-7x-3 = (3x-3)(2x+3) = (3(x-3)-1)(2(x-3)+3) = (3.(x-3-1)(2(x-3)+3) = (3.(x-1-3)(2(x-3)) = 3x(x-1)-3)(2(x-3)
3)

84.) x^2-2x^2-48 x^2+x
(x^2-2x-48) = (2x+48)(x+48) = (x^2-48)x(x^2+48)

100.) (x-5)(x^2-x-6)x^2 = (x-5)x-3.(x+2)(x-3)x^2 = 3.(x-5)x(x+2)x

Ch.8

2.)

4.) (8x+1)(2x-3)(x-5) (2x+3)x(4) (x-5)x(4)
(2x+3)(x-5)(x-3) 2(x+3) x+4
8 x x- (x-3)

20.) 6x(2-x)(x+4) = (3x+1)
6x(2-x)^2(x+4) (x+1)

24.) 4+(2)^2
4x^2 (x^2 5x

34.) 4+

42.) 4 + 4

54.) 4 – 4 ,

62.) 4+