Algebra 1 Weds. 4-3-13 Class Notes

(19) $16N^2 - 11N - 10$ Std form ax^2+bx+c ✓

Homework review

sum = b = −11

prod = ac = −60

+4 −15 ✓

$(6N^2 - 15N) + (4N - 10)$ FBG

$3N(2N-5) + 2(2N-5)$ GCF BOTH TERMS

$(2N-5)(3N+2)$ ✓

(20) $-4N^2 - 16N + 9$ S.F. ✓ NO GCF.

sum = b = −16

prod = ac = −36

12, 3
4, 9
18, 2

+2 −18 ✓

$(-4N^2 - 18N) + (2N + 9)$

$-2N(2N+9) + 1(2N+9)$

$(2N+9)(-2N+1)$ ✓

or

$(2N+9)(-1)(2N-1)$

(18) $7x^2 - 3x - 10$ SF ✓ NO GCF ✓

sum = b = −3

prod = ac = −70 −

+7 −10 −

$(7x^2 + 7x) + (-10x - 10)$

$7x(x+1) + -10(x+1)$

$\boxed{(x+1)(7x-10)}$

or

Practice Worksheet

(#1) $4m^2 + 7mN + 3N^2$

$3N^2 + 7mN + 4m^2$

sum = b = $7m$

prod = ac = $12m^2$

$+3m \quad +4m$

$(3N^2 + 3mN) + (4mN + 4m^2)$

$3N(N + 1m) + 4m(N + 1m)$

$\boxed{(N+m)(3N+4m)}$

WS ID 2 (#1) $4x^2 - 5x - 6$ S.F. ✓ GCF NO ✓

sum = b = −5

prod = ac = −24

+3 −8

$(4x^2 - 8x) + (3x - 6)$

$4x(x-2) + 3(x-2)$

$(x-2)(4x+3)$ ✓

(18) $9x^2 - 22x + 8$ SFV ✓ NO GCF ✓

ID2 WS

Sum = b = -22

Prod = ac = 72

-4 -18

8, 9
~~2, 36~~
~~12 × 6~~
4, 18

72
2 | 36
6 | 6
2 | 3 | 2 | 3

$(9x^2 - 4x) + (-18x + 8)$

$x(9x - 4) + -2(9x - 4)$

$(9x - 4)(x - 2)$ ✓