

Algebra 1 Weds. 4-3-13 Class Notes

16
Home-work
review

$$6N^2 - 11N - 10$$

Std Form
 $ax^2 + bx + c$ ✓

$$\text{sum} = b = -11$$

$$\text{prod} = ac = -60$$

$$+4 -15 ✓$$

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

FBG

$$3N(2N - 5) + 2(2N - 5)$$

GCF BOTH
TERMS

$$(2N - 5)(3N + 2) ✓$$

20 $-4N^2 - 16N + 9$

S.F. ✓ NO GCF.

$$\text{sum} = b = -16$$

$$\text{prod} = ac = -36$$

$$12, 3$$

$$4, 9$$

$$18, 2$$

$$+2 -18 ✓$$

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

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

$$(2N + 9)(-2N + 1) ✓$$

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

⑩ $7x^2 - 3x - 10$ SFV NO GCF ✓

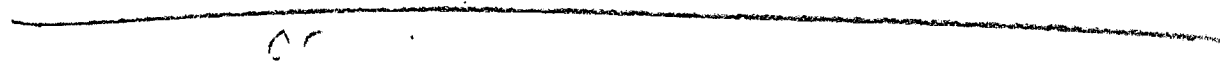
sum = b = -3

prod = ac = -70 -
 +7 -10 -

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

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

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



Practice Worksheet

$$\textcircled{\#1} \quad \frac{4m^2 + 7mN + 3N^2}{\quad}$$

$$3N^2 + \underbrace{7mN} + \underline{4m^2}$$

$$\text{sum} = b = 7m$$

$$\text{prod} = ac = 12m^2$$

$$\underbrace{+3m} \quad \underbrace{+4m}$$

$$(3N^2 + \underline{3mN}) + (4mN + 4m^2)$$

$$3N(\underline{N + 1m}) + 4m(\underline{N + 1m})$$

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

WS #1
ID 2

$$4x^2 - 5x - 6$$

S.F. ✓ GCF NO ✓

$$\begin{aligned} \text{sum} = b &= -5 \\ \text{prod} = ac &= -24 \\ &+3 \quad -8 \end{aligned}$$

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

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

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

(18)
ID2
WS

$$9x^2 - 22x + 8$$

SFV
NOGCF ✓

$$\text{Sum} = b = -22$$

$$\text{Prod} = ac = 72$$

$$-4 - 18$$

$$\begin{array}{l} 8, 9 \\ 2, 36 \\ 12, 6 \\ 4, 18 \end{array}$$

$$\begin{array}{c} 72 \\ / \quad \backslash \\ (2) \quad 36 \\ \quad / \quad \backslash \\ \quad 6 \quad 6 \\ \quad / \quad \backslash \\ (2) \quad (3) \quad (2) \quad (3) \end{array}$$

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

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

$$\boxed{(9x - 4)(x - 2)}$$