

BE-1B TUESDAY 11-27-07

- ① GCF? $12x^2y$, $8x^2y^3$
- ② GCF? $18mn^3$, $27m^2n^2$
- ③ Multiply: $(3x+4)(2x+5)$
- ④ Factor: $4xy^2 - xy$

TAKE OUT HOMEWORK: Pg. 484 #16-27

ANSGE WB

- ① Pg 35 #11 { ③ N/A
- ② Pg 35 #12 { ④ N/A

1.
Do you see any GCF for:

$$4ab + 8b + 3a + 6$$

To factor a 4 term polynomial,
(or more than 4 terms) but for now
try this on any 4 term polynomial:

$$4ab + 8b + 3a + 6$$

↑ ↑ ↑ ↑
Are there Are there
common factors? common factors?

If not, try rearranging the two pairs...

$$4ab + 8b + 3a + 6$$

Group and factor each group GCF

$$(4ab + 8b) + (3a + 6)$$

$$4b(a + 2) + 3(a + 2)$$

$$\boxed{(4b + 3)} \quad \text{check by D.P.}$$

FBG $\Rightarrow$ Factor By Grouping

Practice: Pg. 484 # 30 - 33

One "sign trick" to WATER OUT for:

EX 3
Pg 482

$$35x - 5xy + 3y - 21$$

$$(35x - 5xy) + (3y - 21)$$

$$5x(7 - y) + 3(y - 7)$$

$$5x(7 - y) + 3 \cdot -1(-y + 7)$$

$$5x(7 - y) + -3(7 - y)$$

$$\underline{\underline{(7 - y)(5x - 3)}} \quad \left\{ \begin{array}{l} \text{OK } (y - 7)(-5x + 3) \\ \text{BOOK used} \\ 5x \cdot -1 \end{array} \right.$$

$$\underline{\underline{CK}} \quad 35x - 21 - 5xy + 3y \quad \checkmark$$

Homework: Pg 484 # 34 to 39