

April 15, 2015

- \* Quiz #9 - Friday
- \* Exam #3 - Wednesday
- \* Last Day of Class - Friday, April 24!
- \* Final - Monday April 27  
8:00 - 10:00

Apr 15-8:59 AM

6.2  
#16)

$$x^3 - 5x^2 - 6x$$

$$x(x^2 - 5x - 6)$$

$$x(x - 6)(x + 1)$$

$\begin{array}{r} x \\ -6x \\ -5x \end{array}$

Apr 15-9:12 AM

6.2  
#19)

$$x^3y - 6x^2y^2 + 5xy^3$$

$$xy(x^2 - 6xy + 5y^2)$$

$$xy(x - 5y)(x - y)$$

$$\begin{array}{ccccccc} x^2 & - & xy & - & 5xy & + & 5y^2 \\ F & & O & & I & & L \end{array}$$

$$x^2 - 6xy + 5y^2$$

Apr 15-9:15 AM

#7)

$$6x^2 - 11x - 10$$

Recall  $ax^2 + bx + c$

- ①  $a \cdot c = 6 \cdot (-10) = -60$
- ②  $b = -11$
- ③  $\begin{array}{c|c} - & + \\ \hline 10 & 4 \end{array}$  ✓

① Factor by Grouping

$$6x^2 - 15x + 4x - 10$$

$ACX = 3x$        $ACX = 2$

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

New  $ACX = (2x - 5)$

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

OK

$$\begin{array}{l} F: 2x \cdot 3x = 6x^2 \checkmark \\ O: 2x \cdot 2 = 4x \checkmark \\ I: -5 \cdot 3x = -15x \checkmark \\ L: -5 \cdot 2 = -10 \checkmark \end{array}$$

Apr 15-9:21 AM

#11)

$$12x^2 - 11x - 15$$

- ①  $a \cdot c = 12 \cdot (-15) = -180$
- ②  $b = -11$
- ③  $\begin{array}{c|c} - & + \\ \hline 18 & 10 \end{array}$  ✓

Apr 15-9:38 AM

6.3 #5 - #20

Apr 15-9:52 AM