

November 6, 2017
 * Exam #2 - Friday

60% {
 • III A-D
 • IV A-D
 • V A & C

40% • E1

Nov 6-9:50 AM

5.6 #27) $(2x-1)(6x^2+4x+5)$

$$12x^3 + 8x^2 + 10x - 6x^2 - 4x - 5$$

$$12x^3 + 2x^2 + 6x - 5$$

Nov 6-10:11 AM

6.1 (a) Finding and factoring out the GCF

(b) Factoring by Grouping

e.g. #44 $x^2 + 8x + 7x + 56$ * 4 terms

#1 GCF: x #2 GCF: 7

$$\cancel{x}(x+8) + 7(x+8)$$

GCF: $(x+8)$

$$(x+8)(x+7)$$
 fully factored

Nov 6-10:15 AM

6.3 - Factor Trinomials of the form: $ax^2 + bx + c$, where $a=1$

* Using the Product Sum or ac & b.

Steps:

- 1 Find $a \cdot c$ (product)
- 2 Find b (sum)
- 3 Finding two numbers that gives " ac " and " b " at the same time.
- 4 Re-writing " $b \cdot x$ " term with the new found numbers.

Nov 6-10:22 AM

$$(x+5)(x+2) = x^2 + 2x + 5x + 10$$

multiplication \rightarrow Trinomial

$$= x^2 + 7x + 10$$

Nov 6-10:29 AM

Steps

- 1 $ac = 1 \cdot 10 = 10$
- 2 $b = 7$
- 3

+	+	x	+
10	+	✓	x
5	2	✓	✓

4 terms GCF: 2

$$\cancel{x}(x+5) + 2(x+5)$$

GCF: $(x+5)$

$$(x+5)(x+2)$$
 fully factored

R.P.!

Nov 6-10:31 AM

$x^2 + 12x + 35$

$x^2 + 7x + 5x + 35$
 yc3: x

① $ac = 35$
 ② $b = 12$
 ③

+	+	x	+
6	6	x	✓
7	5	✓	✓

$x(x+7) + 5(x+7)$
 yc2: $(x+7)$

$(x+7)(x+5)$

Check
 $x^2 + 5x + 7x + 35$
 $x^2 + 12x + 35$ ✓

Nov 6-10:41 AM