

April 13, 2015

6.1 #13)  $x(y+4) + 2(y+4)$

$(y+4)(x+2)$  Factored

Apr 13-9:09 AM

#19)

$3x^2 - 6xy - 5x + 10y$

Group 1st 2 terms      Group 2nd 2 terms

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

Relatively Prime      ← some thing →      Relatively Prime

$(x-2y)(3x-5)$  Factored

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6.1 Do #13 - #20

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6.2 Factoring Trinomials of the form  $ax^2 + bx + c$

② → Degree 2

\* where  $a = 1$

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$(x+3)(x+5)$  FOIL

F:  $x \cdot x = x^2$   
 O:  $x \cdot 5 = 5x$   
 I:  $3 \cdot x = 3x$   
 L:  $3 \cdot 5 = 15$

$x^2 + 8x + 15$

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$x^2 + 8x + 15$

\* Key: un-FOILing!

① Guess & Check

$(x+3)(x+5)$  Factored

✓ F:  $x \cdot x = x^2$  ✓  
 O:  $x \cdot 5 = 5x$  ✓  
 I:  $3 \cdot x = 3x$  ✓  
 ✓ L:  $3 \cdot 5 = 15$  ✓

15  
 1 · 15  
 15 · 1  
 3 · 5  
 5 · 3

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6.2  
 #1)  $x^2 + 11x - 42$   
 $(x + 14)(x - 3)$

F:  $x \cdot x = x^2$  ✓  
 O:  $x \cdot (-3) = -3x$  ✓  
 I:  $14 \cdot x = 14x$  ✓  
 L:  $14 \cdot (-3) = -42$  ✓

42  
 1 · 42  
 42 · 1  
 6 · 7  
 7 · 6  
 14 · 3  
 3 · 14  
 2 · 21  
 21 · 2

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#4)  $x^2 + x - 20$

6.2 290 #1 - #10  
 Tutorcaf #28 West Texas

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