

April 21, 2015  
 Exam #3  
 \* 90% Factoring  
 Factor Completely  
 $3y(6y-5) + 2(6y-5)$   
 $(6y-5)(3y+2)$   
 GCF  
 Relatively Prime  
 $18y^2 + 12y - 15y - 10$   
 $18y^2 - 3y - 10$

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Exam #3  
 Factoring  
 Polynomials Exam 2  
 Solving Equations Exam 1

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$7x + 3$  GCF = 1  
 $1(7x + 3)$   
 $7x + 3$  Relatively Prime

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$15m^3 + 24m^2 + 9m$   
 ① Factor out a GCF if possible.  
 GCF =  $3m$   
 $3m(5m^2 + 8m + 3)$   
 $ac = 15, b = 8$   

+	+	p	d
5	3	-	-

  
 $3m \left[ \frac{5m^2 + 5m}{\text{GCF} = 5m} + \frac{3m + 3}{\text{GCF} = 3} \right]$   
 $3m \left[ 5m(m+1) + 3(m+1) \right]$   
 $3m(m+1)(5m+3)$

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$-4x^2 + 4x + 24$   
 GCF =  $-4$   
 $-4(x^2 - x - 6)$   
 $ac = -6, b = -1$   

-	+
3	2

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

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$x^2 - 6x + 2x - 6$   
 $ac = (1)(-6) = -6, b = -1$   

-	+
3	2

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

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$$\begin{aligned}
 & -4x^2 + 4x + 24 \\
 & - (4x^2 - 4x - 24) \quad \begin{array}{l} ac = -96 \\ b = -4 \end{array} \\
 & - [4x^2 - 12x + 8x - 24] \quad \begin{array}{l} -12 \\ 8 \end{array} \\
 & - [4x(x-3) + 8(x-3)] \\
 & - [(x-3)(4x+8)] \\
 & - [(x-3)4(x+2)] \quad \begin{array}{l} \text{not} \\ \text{Relatively Prime} \end{array} \\
 & -4(x-3)(x+2)
 \end{aligned}$$

Apr 21-9:42 AM