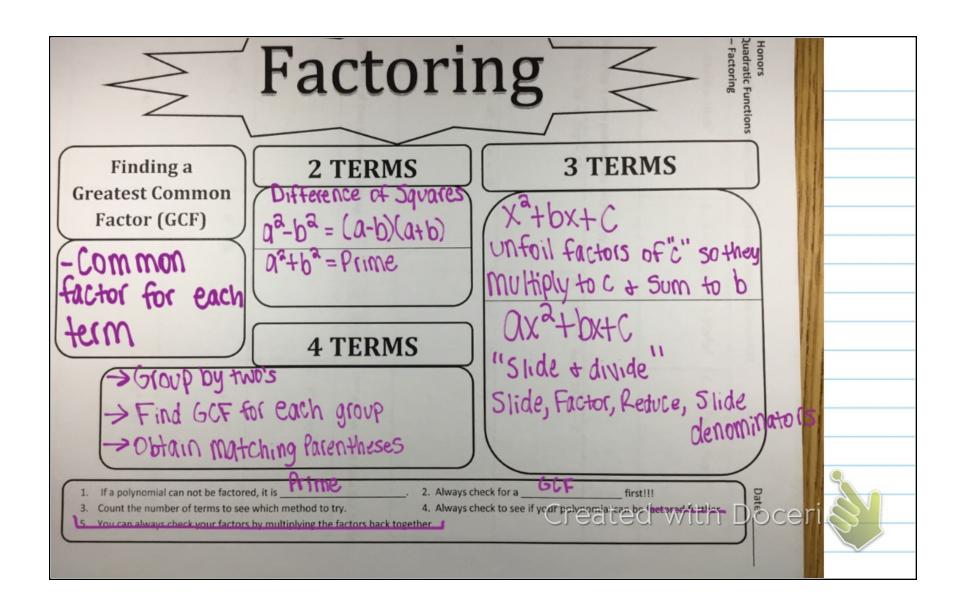
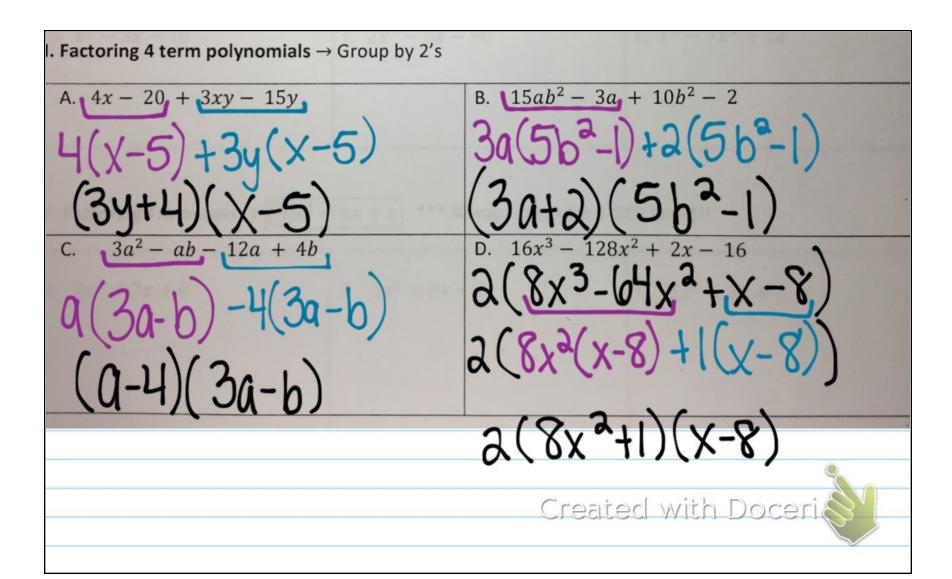
## Unit a Lesson 6 Created with Doceri



## I. Greatest Common Factor (GCF) - if possible, always do this FIRST.

A.  $24a^2b - 18ab^2$ 

B.  $5x^2y - 20xy^2z + 35y^3z^2$  C.  $2x^3yz^3 - 7xy^5z^2$   $Xyz^4 - 4xyz + 7y^2z^2$   $Xyz^2 - 7xy^5z^2$ 



II. Difference of Two Squares Factoring  $\Rightarrow a^2 - b^2 = (a - b)(a + b)$  \*\*\* Always check for a GCF first!!!!

$$(x-3)(x+3)$$

$$(\chi - 1)(\chi + 1)$$

c. 
$$x^2 - 36y^2$$
 ( $\chi - 6y$ ) ( $\chi + 6y$ )

A. $x^2 - 9$	B. $x^2 - 49$	C. $x^2 - 36y^2$
W 68 - 1x - 13	E 62 + 122 + 4y	
D. 16x=1 (4x-1)(4x+1)	Not a diff of squares	$\begin{array}{c c}  & \text{Tricky} \\  & \text{F.} & -1 + x^2 \\  & \text{A} & $
16x2-4x+4x	<b>4</b>	
16x2-	Creat	ed with Doceri

G. $24x^5 - 54xy^6$ $(0)(4x^4 - 9y^6)$ $(0)(2x^2 - 3y^3)(2x^2 + 3y^3)$	H. $4x^2 - 64$ $4(\chi^2 - 16)$ $4(\chi^2 - 16)$ $4(\chi^2 - 16)$	1. $x^4 - 16$ $(x^2 + 4)$
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III. Factoring Trinomials  $\rightarrow x^2 + bx + c$  "SHORTCUT" \*\*\* Always check for a GCF first!!!

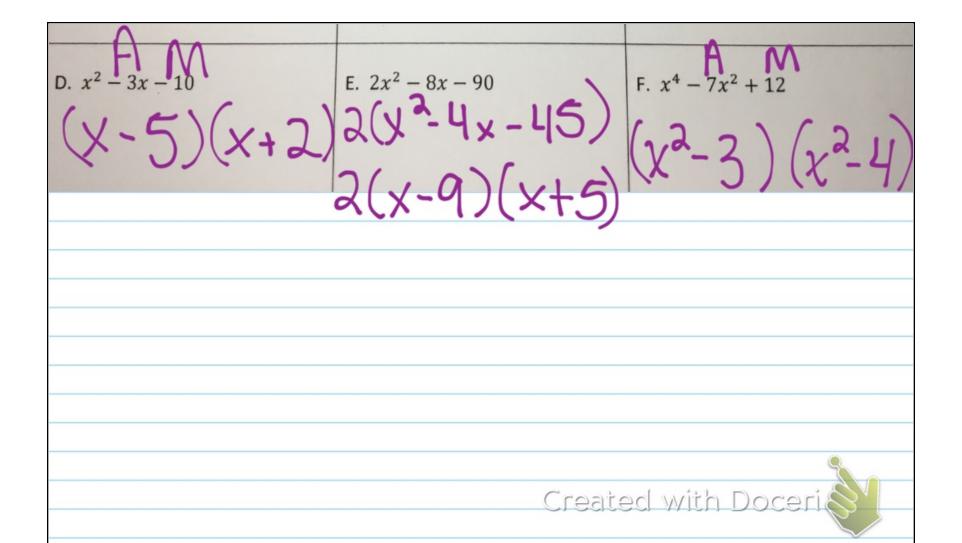
A. 
$$x^2 + 9x + 20$$

B. 
$$x^2 - 7x + 10$$

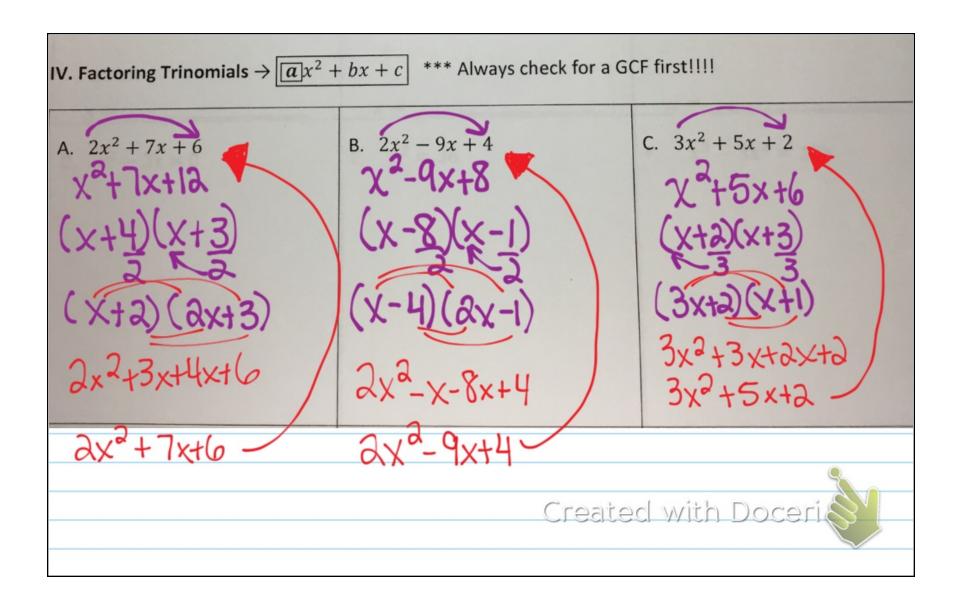
$$(x-2)(x-5)$$

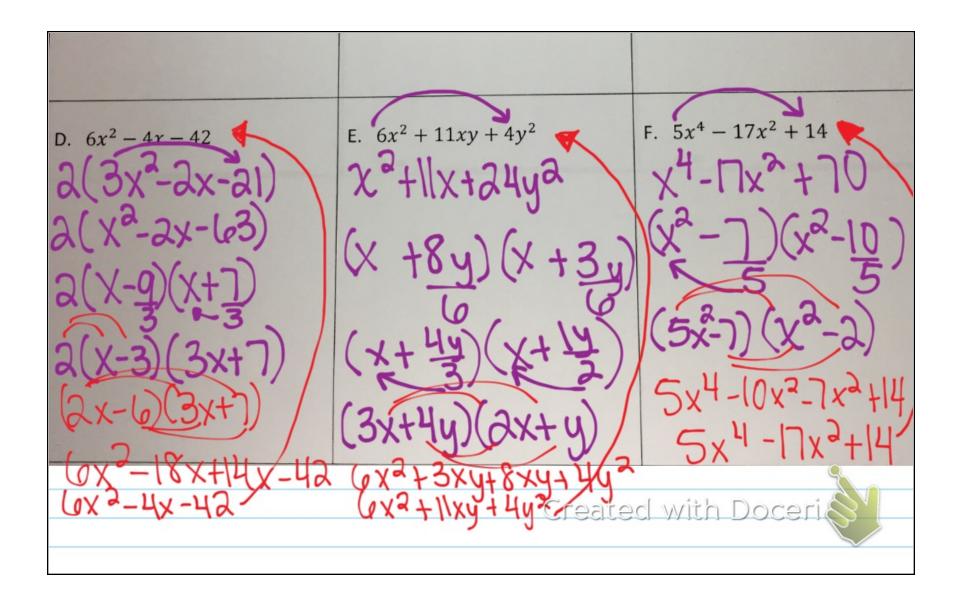
C. 
$$x^2 + 3x - 40$$

$$(x-5)(x+8)$$



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A. 
$$(x-4)(3x-1)=0$$
 $X-4=0$ 
 $+4+4$ 
 $+1+1$ 
 $X=4$ 
 $X=4$ 

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## Page 36-37 Extra Practice for Quiz Created with Doceri

