

Day 1 - Factoring Review 2-23-15

Greatest Common Factor

1.  $16x - 64$                       2.  $3a^2 - 6a$

$16(x-4)$                                $3a(a-2)$

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Difference of Squares  $\sqrt{\quad} - \sqrt{\quad}$

7.  $\sqrt{x^2 - 9}$                       8.  $\sqrt{4k^2 - 25}$

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

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Trinomials with a = 1

13.  $x^2 - 3x - 18$                       14.  $w^2 - 12w + 32$

$\begin{array}{r} AC \\ -18 \\ -1 \cdot 18 \\ -2 \cdot 9 \\ -3 \cdot 6 \\ \underline{-6 \cdot 3} \\ -9 \cdot 2 \\ -18 \cdot 1 \end{array}$	$(x-6)(x+3)$	$\begin{array}{r} AC \\ 32 \\ -1 \cdot 32 \\ -2 \cdot 16 \\ \underline{-4 \cdot 8} \end{array}$	$(w-4)(w-8)$
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Trinomials with a = 1

19.  $2x^2 + 5x - 3$                       20.  $6x^2 - 5x - 4$

$\begin{array}{r} AC \\ 2 \cdot 3 \\ -6 \\ \underline{-6 \cdot 1} \\ 6 \cdot 1 \end{array}$	$(2x^2+6x)(1x-3)$ $2x(x+3)-1(x+3)$ $(x+3)(2x-1)$	$\begin{array}{r} AC \\ 6 \cdot 4 \\ -24 \\ -1 \cdot 24 \\ -2 \cdot 12 \\ -3 \cdot 8 \\ \underline{3 \cdot 8} \end{array}$	$(6x^2-8x)(3x-4)$ $2x(3x-4)+1(3x-4)$ $(3x-4)(2x+1)$ $6x^2+3x-8x-4$ $6x^2-5x-4$
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