

No Starter
 $x^2 + 9x + 20$
 $a:1 \quad b:9 \quad c:20$
 ~~$\begin{array}{r} 20 \\ 4 \times 5 \\ 9 \end{array}$~~ $(x+5)(x+4)$

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EX5) $5x^2 - 18x + 16$
 $a:5 \quad b:-18 \quad c:16$
 ~~$\begin{array}{r} 80 \\ -10 \times -8 \\ -18 \end{array}$~~ $(\frac{5x-10}{5})(5x-8)$
 $(x-2)(5x-8)$

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$3a^2 + 11a - 20$
 $a:3 \quad b:11 \quad c:-20$
 ~~$\begin{array}{r} -60 \\ 15 \times -4 \\ 11 \end{array}$~~ $(\frac{3a+15}{3})(3a-4)$
 $(a+5)(3a-4)$

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Get a piece of paper
 1) $x^2 - x - 12$
 $a:1 \quad b:-1 \quad c:-12$
 ~~$\begin{array}{r} -12 \\ 3 \times -4 \\ -1 \end{array}$~~ $\begin{array}{r} 12 \\ 2 \times 6 \\ 3 \times 4 \end{array}$ $(x-4)(x+3)$

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2) $x^2 - 11x + 30$ $\begin{array}{r} 1 \\ 2 \\ 3 \\ 5 \end{array} \begin{array}{r} 30 \\ 15 \\ 10 \\ 6 \end{array}$
 $a:1 \quad b:-11 \quad c:30$
 ~~$\begin{array}{r} 30 \\ -5 \times -6 \\ -11 \end{array}$~~ $(x-6)(x-5)$

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3) $5x^2 + 16x + 3$
 $a:5 \quad b:16 \quad c:3$
 ~~$\begin{array}{r} 15 \\ 1 \times 15 \\ 16 \end{array}$~~ $(\frac{5x+15}{5})(5x+1)$
 $(x+3)(5x+1)$

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4) $4x^2 - 23x - 6$
 $a \cdot 4 \quad b \cdot -23 \quad c \cdot -6$

~~$\begin{matrix} -24 & & 1 \\ -24 & \times & 1 \\ & & -23 \end{matrix}$~~

$\left(\frac{4x-24}{4}\right)\left(\frac{4x+1}{4}\right)$
 $(x-6)(4x+1)$

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Factoring Quiz
 Calendar Math
 Homework Questions
 1.4 Difference of Squares
 Homework 1.4 Difference of Squares Worksheet

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Homework Questions
 #9) $3v^2 - 26v + 48$
 $a \cdot 3 \quad b \cdot -26 \quad c \cdot 48$

~~$\begin{matrix} 144 & & -18 \\ -8 & \times & -18 \\ & & -26 \end{matrix}$~~

$\left(\frac{3v-18}{3}\right)\left(\frac{3v-8}{3}\right)$
 $(v-6)(3v-8)$

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#12 $18x^2 - 15x - 150$
 GCF: 3 $3(bx^2 - 5x - 50)$
 $a \cdot 6 \quad b \cdot 5 \quad c \cdot -50$

~~$\begin{matrix} -300 & & 15 \\ -20 & \times & 15 \\ & & -5 \end{matrix}$~~

$3\left(\frac{6x-20}{2}\right)\left(\frac{6x+15}{3}\right)$
 $3(3x-10)(2x+5)$

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11) $48n^3 - 84n^2 - 90n$
 GCF: $6n(8n^2 - 14n - 15)$

~~$\begin{matrix} -120 & & +6 \\ -20 & \times & +6 \\ & & -14 \end{matrix}$~~

$6n\left(\frac{8n-20}{4}\right)\left(\frac{8n+6}{2}\right)$
 $6n(2n-5)(4n+3)$

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Difference of Squares

$x \begin{matrix} \square \\ \times \end{matrix} x \quad X^2 \quad \begin{matrix} \square \\ 4 \end{matrix} 4 \quad 16$

$a^2 - b^2 = (a-b)(a+b)$

ex) $\sqrt{x^2 - 49}$
 $(x-7)(x+7)$

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ex 2) $\sqrt{a^2x^2} - \sqrt{b^2y^2}$ \square $3x$ \square $4y$
 $\frac{a}{b}$ $3x$ $4y$
 $(3x-4y)(3x+4y)$

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ex 3 $\sqrt{25m^2} - \sqrt{36n^2}$
 $(5m-6n)(5m+6n)$

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10) $50a^2 - 2$
 GCF: 2 $2(25a^2 - 1)$ $1 \cdot 1 = 1$
 $2(5a-1)(5a+1)$

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16) $42a^3 + 174a^2 - 180a$
 GCF: $6a$ $6a(7a^2 + 29a - 30)$
 $\begin{array}{r} -210 \\ 6 \times 35 \\ \hline 29 \end{array}$ $6a\left(\frac{7a+35}{7}\right)\left(\frac{7a-6}{7}\right)$
 $6a(a+5)(7a-6)$

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ex 3) $25m^2 - 36n^2$

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Homework

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