

Take out a piece of paper

• $5x^2 + 16x + 3$
 $a: 5 \quad b: 16 \quad c: 3$

~~$\begin{matrix} 15 & & \\ 5 & \times & 1 \\ & & 16 \end{matrix}$~~

$(5x + 15)(5x + 1)$
 $(x + 3)(5x + 1)$

Sep 1-2:55 PM

$4x^2 - 23x - 6$

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

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

Sep 2-11:58 AM

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

Sep 1-2:55 PM

Homework Questions

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

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

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

Sep 1-2:57 PM

12) $18x^2 - 15x - 150$
 GCF: 3

$3(6x^2 - 5x - 50)$
 $a: 6 \quad b: -5 \quad c: -50$

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

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

Sep 2-12:04 PM

7) $5b^2 - 42b - 27$

~~$\begin{matrix} -135 & & \\ -45 & \times & 3 \\ & & -42 \end{matrix}$~~

$(\frac{5b-45}{5})(5b+3)$
 $(b-9)(5b+3)$

Sep 2-12:07 PM

16) $18n^2 - 152n - 90$
 GCF: 2 $2(9n^2 - 76n - 45)$
 $\begin{array}{r} -405 \\ -81 \quad \times \quad 5 \\ -76 \end{array}$
 $2(9n - 81)(n + 5)$
 $2(n - 9)(9n + 5)$

Sep 2-12:08 PM

15) $50a^2 - 155a + 75$
 GCF: 5 $5(10a^2 - 31a + 15)$
 $\begin{array}{r} 150 \\ -25 \quad \times \quad -6 \\ -31 \end{array}$
 $5(10a - 25)(a - 3)$
 $5(2a - 5)(5a - 3)$

Sep 2-12:11 PM

$x^2 + 6x - 7$
 $\begin{array}{r} -7 \\ 7 \quad \times \quad -1 \\ 6 \end{array}$
 $(x + 7)(x - 1)$

Sep 2-12:16 PM

Difference of Squares
 $x^2 \quad 16 \quad 9 \quad 36 \quad 25$
 81
 Same # or variable multiplied together
 $x \cdot x \quad 4 \cdot 4 \quad 3 \cdot 3 \quad 6 \cdot 6 \quad 9 \cdot 9$

Sep 1-2:57 PM

$\sqrt{a^2} - \sqrt{b^2} = (a - b)(a + b)$
 $(a + b)(a - b)$
 ex1) $\sqrt{x^2} - \sqrt{49}$
 $(x - 7)(x + 7)$

Sep 2-12:28 PM

ex2) $\sqrt{9x^2} - \sqrt{16y^2}$
 $(3x + 4y)(3x - 4y)$

Sep 2-12:30 PM

Homework
 #10) $50a^2 - 2$
 GCF: 2 $1 \cdot 1 = 1$
 $2(25a^2 - 1)$ $\sqrt{1} = 1$
 \downarrow \downarrow
 $2(5a+1)(5a-1)$

Sep 1-2:57 PM

(b) $42a^3 + 174a^2 - 180a$
 GCF: $6a$ $6a(7a^2 + 29a - 30)$
 $\begin{matrix} -210 \\ -6 & +35 \\ 29 \end{matrix}$ \downarrow
 $6a(7a-6)(7a+5)$
 \downarrow
 $6a(7a-6)(a+5)$

Sep 2-12:35 PM

$\square x - \square 4$
 $x^2 - 16$ $(y+5)(x-5)$
 $= x^2 - 25$
 $\sqrt{x^2} + \sqrt{25} =$
 $\square^x + \square \cdot 5$
 $x? \quad 5?$

Sep 2-12:49 PM