Take out a piece of paper

$5x^2+16x+3$

$a\cdot 5 \quad b:16 \quad c:3$

15, 15, 1, 16

$\left(\frac{5x}{5}+\frac{15}{5}\right)(5x+1)$

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

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$4x^2-23x-6$

-24, -24, 1, -23

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

$(x-6)(4x+1)$

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Starter

Homework Questions

1.4 Difference of Squares

Homework 1.4 Difference of Squares Worksheet

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Homework Questions

16) $18n^2-152n-90$

GCF: 2

$2(9n^2-76n-45)$

$a\cdot 9 \quad b\cdot -76 \quad c:-45$

-405, 5, -81, -76

$2\left(\frac{9n}{9}-\frac{81}{9}\right)(9n+5)$

$2(n-9)(9n+5)$

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11) $48n^3-84n^2-90n$

GCF: $6n$

$6n(8n^2-14n-15)$

$a \quad b \quad c$

-120, -20, 6, -14

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

$6n(4n-5)(4n+3)$

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

$a\cdot 5 \quad b:-42 \quad c\cdot -27$

-135, -45, 3, -42

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

$(b-9)(5b+3)$

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3) $n^2 - n - 42$

-42, -7, 6, -1

$(n-7)(n+6)$

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Difference of Squares

perfect square

x^2 16 25 36

x $x\ x$ $4\ 4$ $5\ 5$ $6\ 6$

Same numbers as the factors

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$\sqrt{a^2} - \sqrt{b^2} = (a-b)(a+b)$

6) $x^2 - 49$

$a \quad b$

$(x-7)(x+7)$

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Homework

2) $\sqrt{9x^2} - \sqrt{16y^2}$

$a \quad b$

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

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#4) $1u^2 - 16v^2$

$1 \cdot 1 = 1$

$(1u-4v)(1u+4v)$

$(u-4v)(u+4v)$

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9) $18x^2 - 32$ GCF: 2

$2(9x^2 - 16)$

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

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19) $50a^2 - 2$ GCF: 2

$2(25a^2 - 1)$

$\downarrow$

$2(5a - 1)(5a + 1)$

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