Factoring Polynomials Review

Greatest Common Factor	Leading Coefficient=1	Leading coefficient $\neq 1$	Potpourri	Stupid Questions
100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400

Player A

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Greatest Common Factor for 100.

Factor $2x - 10$ completely

a $2(x - 10)$

b 2(5)

c $2(x - 5)$

d $2x - 10$

e none of the above

Greatest Common Factor for 200.

Factor $15a^2b - 10ab^2$ completely

a $5(3a^2b - 2ab^2)$

b $5ab(3a - 2b)$

c $5ab(3ab - 2ab)$

d $15a^2b - 10ab^2$

e none of the above

Greatest Common Factor for 300.

Factor $10m^3n^3 - 2mn^2 + 14mn$ completely

a $10m^3n^3 - 2mn^2 + 14mn$

b $2(5m^3n^3 - 2mn^2 + 14mn)$

c $2mn(5m^3n^3 - 2mn^2 + 14mn)$

d $2mn(5m^2n^2 - 2n^2 + 7)$

e none of the above

Greatest Common Factor for 400.

Factor $4a^2b^2 + 16ab + 12a$ completely

a $4a(ab^2 + 4b + 3)$

b $4ab(ab + 4 + 3b)$

c $2ab(2ab + 8 + 6b)$

d $4a^2b^2 + 16ab + 12a$

e none of the above

Leading Coefficient=1 for 100.

Factor $x^2 + 7x + 12$

a $(x+2)(x+5)$

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

c $(x+3)(x+4)$

d $(x-3)(x-4)$

e none of the above

Leading Coefficient=1 for 200.

Factor $w^2 - w - 6$

a $(w-2)(w-3)$

b $(w+2)(w-3)$

c $(w+2)(w+3)$

d $(w-2)(w+3)$

e none of the above

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Leading Coefficient=1 for 300.

Factor $z^2 - z - 182$

a $(z + 13)(z + 14)$

b $(z - 13)(z - 14)$

c $(z - 13)(z + 14)$

d $(z + 13)(z - 14)$

e none of the above

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Leading Coefficient=1 for 400.

Factor $-4 - 3m + m^2$

a $(m + 4)(m + 1)$

b $(m - 1)(m - 4)$

c $(-4 + m)(1 + m)$

d $(-4 + m)(1 - m)$

e none of the above

Leading coefficient $\neq 1$ for 100.

Factor $2x^2 + 5x + 2$

a $(x+1)(x+4)$

b $(x+2)(2x+1)$

c $(x+1)(2x+2)$

d $(x+1)(x+2)$

e none of the above

Leading coefficient $\neq 1$ for 200.

Factor $2x^2 - 11x + 15$

a $(2x - 5)(x - 3)$

b $(2x + 5)(x + 3)$

c $(2x - 3)(x - 5)$

d $(2x + 3)(x + 5)$

e none of the above

Leading coefficient $\neq 1$ for 300.

Factor $15n^2 - n - 28$

a $(3n - 4)(5n - 7)$

b $(3n + 4)(5n + 7)$

c $(3n - 4)(5n + 7)$

d $(3n + 4)(5n - 7)$

e none of the above

Leading coefficient $\neq 1$ for 400.

Factor $12q^2 + 34q - 28$

a $2(2x + 7)(3x - 2)$

b $(4x - 7)(3x + 4)$

c $(2x - 7)(6x + 4)$

d $(x - 4)(12x + 7)$

e none of the above

Potpourri for 100.

Factor $3p^2 - 147$ completely

a $3(p^2 - 49)$

b $3(p - 7)^2$

c $3(p - 7)(p + 7)$

d $3(p + 7)^2$

e none of the above

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Potpourri for 200.

Factor $6t^3 - 14t^2 - 12t$ completely

a $2t(t+3)(3t+2)$

b $2t(t-2)(3t+3)$

c $2t(t-2)(3t-3)$

d $2t(t-3)(3t+2)$

e none of the above

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Potpourri for 300.

Factor $16c^2 + 72cd + 81d^2$

a $(4c + 9d)^2$

b $(2c + 3d)(8c + 27d)$

c $(4c + 3)(4c + 27d)$

d $(2c + 27d)(8c + 3d)$

e none of the above

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Potpourri for 400.

Factor $w^4 - 12w^2 - 45$

a $(w-3)(w-15)$

b $(w^2-3)(w^2-15)$

c $(w+3)(w-15)$

d $(w^2+3)(w^2-15)$

e None of the above

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Stupid Questions for 100.

In $x^2+3x+2=(x+1)(x+2)$, $(x+1)$ and $(x+2)$ are called

a groups

b products

c factors

d pairs

e none of the above

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Stupid Questions for 200.

$x^2 + 81$ is factorable.

a Yes, it's $(x + 9)(x + 9)$

b Yes, because it's sum of two squares

c No, difference of two squares can be factored, but not sum of two squares.

d No. A difference of squares is factorable but not a sum.

e none of the above

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Stupid Questions for 300.

$x^2 + 8x + 15$ can be solved

a. Of course! $x^2 + 8x + 15$ can be factored, so there are solutions.

b. Of course! Because I can guess and check for the value of x.

c. No! It is not factorable

d. No! It is an expression, and not an equation.

e. none of the above

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Stupid Questions for 400.

Factoring is the only way to solve quadratic equations

a Yes. How else can you solve for the variable?

b Yes. If you can't factor, then there are no solutions.

c No. There are other ways such as using the quadratic formula.

d No. You can always guess and check.

e None of the above

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