因数分解 基本（20問）　版A

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 - 6x =$

(2) $x^2 - 6x + 8 =$

(3) $x^2 - 2x - 35 =$

(4) $3x^2 + 21x =$

(5) $x^2 + 13x + 36 =$

(6) $x^2 + 4x + 4 =$

(7) $x^2 + 10x + 24 =$

(8) $x^2 + 15x + 56 =$

(9) $4x^2 - 81 =$

(10) $2x^2 + 10x =$

(11) $x^2 + 18x + 81 =$

(12) $x^2 - 2x - 15 =$

(13) $x^2 - 6x + 9 =$

(14) $4x^2 - 25 =$

(15) $x^2 - 36 =$

(16) $x^2 + 2x - 8 =$

(17) $x^2 + 2x - 48 =$

(18) $x^2 + 8x - 9 =$

(19) $x^2 - 12x + 36 =$

(20) $9x^2 - 16 =$

因数分解 基本（20問）　版B

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 + 11x + 30 =$

(2) $16x^2 - 25 =$

(3) $x^2 - 8x + 16 =$

(4) $x^2 - 5x =$

(5) $x^2 - 14x + 45 =$

(6) $x^2 + 2x + 1 =$

(7) $x^2 + 4x - 12 =$

(8) $x^2 + 14x + 48 =$

(9) $x^2 - 10x + 25 =$

(10) $x^2 - 2x =$

(11) $x^2 - x - 20 =$

(12) $x^2 - 4 =$

(13) $x^2 - 9x + 20 =$

(14) $x^2 - x - 2 =$

(15) $16x^2 - 49 =$

(16) $9x^2 - 25 =$

(17) $x^2 + 2x - 15 =$

(18) $x^2 + 14x + 49 =$

(19) $6x^2 + 48x =$

(20) $x^2 + 8x + 12 =$

因数分解 基本（20問）　版C

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 + 13x + 36 =$

(2) $6x^2 - 12x =$

(3) $16x^2 - 81 =$

(4) $x^2 - 6x - 16 =$

(5) $x^2 - x - 42 =$

(6) $x^2 + 16x + 64 =$

(7) $5x^2 + 30x =$

(8) $x^2 - 4x - 5 =$

(9) $x^2 + 14x + 49 =$

(10) $x^2 - 3x - 40 =$

(11) $x^2 - 2x - 24 =$

(12) $x^2 + 5x + 6 =$

(13) $x^2 - 4x + 3 =$

(14) $4x^2 - 49 =$

(15) $9x^2 - 4 =$

(16) $2x^2 + 16x =$

(17) $x^2 + 6x + 8 =$

(18) $4x^2 - 81 =$

(19) $x^2 + 8x + 16 =$

(20) $x^2 + 6x + 9 =$

因数分解 基本（20問）　版D

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 - 8x + 12 =$

(2) $x^2 - 64 =$

(3) $4x^2 - 9 =$

(4) $x^2 - 4x - 21 =$

(5) $x^2 + 17x + 72 =$

(6) $x^2 + 3x - 10 =$

(7) $x^2 + 10x + 25 =$

(8) $x^2 - x - 6 =$

(9) $2x^2 + 10x =$

(10) $x^2 + 14x + 49 =$

(11) $x^2 - 7x + 12 =$

(12) $5x^2 + 45x =$

(13) $x^2 - 9x + 20 =$

(14) $x^2 - 10x + 25 =$

(15) $4x^2 - 49 =$

(16) $9x^2 - 16 =$

(17) $x^2 - 4x + 4 =$

(18) $x^2 + 6x =$

(19) $x^2 - 6x - 27 =$

(20) $x^2 - 7x + 10 =$

因数分解 基本（20問）　版E

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 + 3x - 10 =$

(2) $x^2 + 7x + 10 =$

(3) $9x^2 - 25 =$

(4) $x^2 - 3x =$

(5) $4x^2 - 81 =$

(6) $x^2 + 3x - 18 =$

(7) $x^2 + 4x + 4 =$

(8) $x^2 + 14x + 48 =$

(9) $x^2 + 12x + 36 =$

(10) $6x^2 + 24x =$

(11) $x^2 + 2x - 3 =$

(12) $x^2 - 4x - 32 =$

(13) $x^2 - 12x + 35 =$

(14) $x^2 - 10x + 21 =$

(15) $x^2 - 14x + 49 =$

(16) $9x^2 - 1 =$

(17) $16x^2 - 81 =$

(18) $x^2 + 6x + 9 =$

(19) $x^2 - x - 42 =$

(20) $4x^2 + 4x =$

因数分解 基本（20問）　版F

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 + 7x =$

(2) $x^2 - 8x + 16 =$

(3) $4x^2 - 1 =$

(4) $x^2 - 1 =$

(5) $2x^2 + 18x =$

(6) $x^2 + 10x + 9 =$

(7) $x^2 + 4x + 4 =$

(8) $x^2 + 2x - 8 =$

(9) $x^2 + 6x - 16 =$

(10) $x^2 + 12x + 36 =$

(11) $x^2 - 49 =$

(12) $x^2 - 12x + 35 =$

(13) $9x^2 - 25 =$

(14) $x^2 + x - 6 =$

(15) $x^2 - x - 42 =$

(16) $x^2 + 12x + 32 =$

(17) $x^2 - 4x - 21 =$

(18) $x^2 + 16x + 64 =$

(19) $2x^2 - 6x =$

(20) $x^2 - 13x + 42 =$

因数分解 基本（20問）　版G

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 - 25 =$

(2) $x^2 - 64 =$

(3) $5x^2 + 40x =$

(4) $x^2 - x - 42 =$

(5) $x^2 - 8x + 7 =$

(6) $x^2 - 2x + 1 =$

(7) $x^2 + 2x + 1 =$

(8) $x^2 + 3x - 4 =$

(9) $x^2 - 49 =$

(10) $x^2 - x - 12 =$

(11) $x^2 - 15x + 54 =$

(12) $x^2 + 4x + 4 =$

(13) $x^2 - 2x - 63 =$

(14) $9x^2 - 25 =$

(15) $x^2 - 13x + 40 =$

(16) $x^2 + 8x + 16 =$

(17) $6x^2 + 48x =$

(18) $x^2 + 5x - 6 =$

(19) $3x^2 - 15x =$

(20) $x^2 - 12x + 32 =$

因数分解 基本（20問）　版H

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $16x^2 - 25 =$

(2) $9x^2 - 25 =$

(3) $x^2 + 3x + 2 =$

(4) $x^2 - 10x + 25 =$

(5) $2x^2 + 10x =$

(6) $x^2 - 7x + 12 =$

(7) $x^2 - 12x + 32 =$

(8) $x^2 + 15x + 56 =$

(9) $x^2 + 12x + 36 =$

(10) $4x^2 - 1 =$

(11) $16x^2 - 49 =$

(12) $x^2 + 6x + 9 =$

(13) $4x^2 - 24x =$

(14) $x^2 - 5x - 24 =$

(15) $x^2 + 3x - 40 =$

(16) $x^2 - 6x + 8 =$

(17) $x^2 - 4x =$

(18) $x^2 - 10x + 24 =$

(19) $x^2 + 10x + 25 =$

(20) $x^2 + 6x - 27 =$

因数分解 基本（20問）　版I

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 - 8x + 16 =$

(2) $x^2 - 6x + 5 =$

(3) $4x^2 + 24x =$

(4) $x^2 + 11x + 18 =$

(5) $x^2 + 2x - 63 =$

(6) $4x^2 - 25 =$

(7) $x^2 - 81 =$

(8) $6x^2 + 12x =$

(9) $x^2 - 2x - 15 =$

(10) $3x^2 - 21x =$

(11) $x^2 + 5x - 14 =$

(12) $x^2 + 9x + 20 =$

(13) $x^2 - x - 30 =$

(14) $x^2 - 2x + 1 =$

(15) $x^2 + x - 72 =$

(16) $x^2 - 6x + 9 =$

(17) $x^2 + x - 20 =$

(18) $x^2 + 12x + 36 =$

(19) $9x^2 - 49 =$

(20) $x^2 - 4 =$

因数分解 基本（20問）　版J

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 - 5x - 14 =$

(2) $x^2 - 2x - 35 =$

(3) $5x^2 + 10x =$

(4) $x^2 + 14x + 48 =$

(5) $x^2 - 9x + 18 =$

(6) $x^2 - 64 =$

(7) $x^2 - 7x - 8 =$

(8) $4x^2 - 24x =$

(9) $x^2 - 10x + 9 =$

(10) $x^2 + 14x + 49 =$

(11) $x^2 + 18x + 81 =$

(12) $16x^2 - 49 =$

(13) $16x^2 - 1 =$

(14) $x^2 - 6x - 7 =$

(15) $x^2 + 16x + 64 =$

(16) $x^2 + 4x + 3 =$

(17) $4x^2 - 49 =$

(18) $x^2 - 4x + 4 =$

(19) $x^2 + 10x + 9 =$

(20) $6x^2 + 6x =$

因数分解 基本（20問）　版K

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 - 7x - 18 =$

(2) $6x^2 - 54x =$

(3) $16x^2 - 25 =$

(4) $x^2 - 11x + 18 =$

(5) $6x^2 + 48x =$

(6) $6x^2 + 12x =$

(7) $x^2 - 36 =$

(8) $x^2 + 14x + 49 =$

(9) $4x^2 - 49 =$

(10) $x^2 - 12x + 27 =$

(11) $x^2 - 18x + 81 =$

(12) $x^2 - 6x + 9 =$

(13) $x^2 - 10x + 24 =$

(14) $x^2 + 2x - 15 =$

(15) $x^2 - 5x + 6 =$

(16) $x^2 + 3x - 10 =$

(17) $x^2 - 7x + 10 =$

(18) $9x^2 - 64 =$

(19) $x^2 + 10x + 25 =$

(20) $x^2 + 4x - 5 =$

因数分解 基本（20問）　版L

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 - 4x - 12 =$

(2) $x^2 + 6x + 9 =$

(3) $9x^2 - 49 =$

(4) $4x^2 - 49 =$

(5) $x^2 - 11x + 24 =$

(6) $x^2 - 6x + 9 =$

(7) $x^2 - x - 20 =$

(8) $5x^2 + 20x =$

(9) $6x^2 - 6x =$

(10) $x^2 - 5x - 14 =$

(11) $x^2 - 2x - 3 =$

(12) $x^2 + 12x + 36 =$

(13) $x^2 + 12x + 35 =$

(14) $x^2 + 9x + 20 =$

(15) $9x^2 - 25 =$

(16) $2x^2 - 8x =$

(17) $x^2 - 81 =$

(18) $x^2 + 10x + 24 =$

(19) $x^2 - 7x - 18 =$

(20) $x^2 - 4x + 4 =$

因数分解 基本（20問）　版M

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $9x^2 - 1 =$

(2) $5x^2 - 45x =$

(3) $x^2 - 11x + 30 =$

(4) $x^2 - 10x + 9 =$

(5) $x^2 + 2x - 15 =$

(6) $4x^2 - 49 =$

(7) $x^2 + 2x - 24 =$

(8) $x^2 - 9 =$

(9) $x^2 - 10x + 16 =$

(10) $x^2 + 4x + 4 =$

(11) $x^2 + 6x + 9 =$

(12) $x^2 + 16x + 64 =$

(13) $4x^2 + 20x =$

(14) $16x^2 - 1 =$

(15) $x^2 - 6x =$

(16) $x^2 - 8x + 16 =$

(17) $x^2 + x - 6 =$

(18) $x^2 - 8x + 7 =$

(19) $x^2 + 12x + 32 =$

(20) $x^2 + 13x + 36 =$

因数分解 基本（20問）　版N

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 - 9x + 8 =$

(2) $x^2 + 9x + 20 =$

(3) $x^2 - 11x + 28 =$

(4) $x^2 + 3x + 2 =$

(5) $x^2 + 14x + 49 =$

(6) $x^2 + 17x + 72 =$

(7) $16x^2 - 25 =$

(8) $x^2 - 4x + 4 =$

(9) $4x^2 - 20x =$

(10) $5x^2 + 20x =$

(11) $16x^2 - 9 =$

(12) $x^2 + 4x - 45 =$

(13) $9x^2 - 16 =$

(14) $x^2 + x - 72 =$

(15) $9x^2 - 25 =$

(16) $x^2 + 14x + 48 =$

(17) $x^2 + 2x + 1 =$

(18) $x^2 + 6x + 9 =$

(19) $6x^2 - 6x =$

(20) $x^2 + 6x - 7 =$

因数分解 基本（20問）　版O

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 + x - 6 =$

(2) $x^2 - 1 =$

(3) $x^2 + 8x + 16 =$

(4) $x^2 + 2x - 24 =$

(5) $x^2 + 15x + 56 =$

(6) $x^2 - x - 2 =$

(7) $16x^2 - 1 =$

(8) $x^2 - 13x + 40 =$

(9) $2x^2 - 16x =$

(10) $x^2 - 2x + 1 =$

(11) $5x^2 + 5x =$

(12) $6x^2 - 36x =$

(13) $x^2 + 8x + 15 =$

(14) $x^2 + 2x - 3 =$

(15) $4x^2 - 49 =$

(16) $x^2 - 18x + 81 =$

(17) $x^2 + 17x + 72 =$

(18) $x^2 + 16x + 64 =$

(19) $x^2 - 49 =$

(20) $x^2 + 12x + 35 =$

因数分解 基本（20問）　版P

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 + 5x - 24 =$

(2) $x^2 + 16x + 64 =$

(3) $x^2 + 6x =$

(4) $9x^2 - 49 =$

(5) $x^2 - x - 42 =$

(6) $4x^2 - 81 =$

(7) $4x^2 - 9 =$

(8) $x^2 + 11x + 30 =$

(9) $x^2 + 2x - 35 =$

(10) $x^2 + 12x + 36 =$

(11) $x^2 - 10x + 21 =$

(12) $x^2 - 64 =$

(13) $2x^2 - 18x =$

(14) $x^2 - 4x + 4 =$

(15) $2x^2 - 16x =$

(16) $x^2 - 8x + 12 =$

(17) $x^2 + 6x + 8 =$

(18) $x^2 - 12x + 32 =$

(19) $x^2 + 6x - 7 =$

(20) $x^2 - 10x + 25 =$

因数分解 基本（20問）　版Q

組　番　　なまえ：＿＿＿＿＿＿＿＿＿＿　　／20問

(1) $x^2 - 12x + 32 =$

(2) $x^2 + 8x + 16 =$

(3) $x^2 - 13x + 40 =$

(4) $9x^2 - 25 =$

(5) $3x^2 - 18x =$

(6) $x^2 + 4x =$

(7) $4x^2 - 32x =$

(8) $x^2 - 4x + 4 =$

(9) $x^2 + x - 2 =$

(10) $x^2 - 81 =$

(11) $x^2 - 7x - 18 =$

(12) $9x^2 - 4 =$

(13) $x^2 - 64 =$

(14) $x^2 - 5x - 14 =$

(15) $x^2 - 5x + 6 =$

(16) $x^2 - 2x + 1 =$

(17) $x^2 - 3x - 4 =$

(18) $x^2 - 8x + 7 =$

(19) $x^2 + 2x + 1 =$

(20) $x^2 + 5x + 4 =$

因数分解 基本（20問）　版Aの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 - 6x$
$= x(x - 6)$

(2) $x^2 - 6x + 8$
$= (x - 4)(x - 2)$

(3) $x^2 - 2x - 35$
$= (x - 7)(x + 5)$

(4) $3x^2 + 21x$
$= 3x(x + 7)$

(5) $x^2 + 13x + 36$
$= (x + 4)(x + 9)$

(6) $x^2 + 4x + 4$
$= (x + 2)^2$

(7) $x^2 + 10x + 24$
$= (x + 4)(x + 6)$

(8) $x^2 + 15x + 56$
$= (x + 7)(x + 8)$

(9) $4x^2 - 81$
$= (2x - 9)(2x + 9)$

(10) $2x^2 + 10x$
$= 2x(x + 5)$

(11) $x^2 + 18x + 81$
$= (x + 9)^2$

(12) $x^2 - 2x - 15$
$= (x - 5)(x + 3)$

(13) $x^2 - 6x + 9$
$= (x - 3)^2$

(14) $4x^2 - 25$
$= (2x - 5)(2x + 5)$

(15) $x^2 - 36$
$= (x - 6)(x + 6)$

(16) $x^2 + 2x - 8$
$= (x - 2)(x + 4)$

(17) $x^2 + 2x - 48$
$= (x - 6)(x + 8)$

(18) $x^2 + 8x - 9$
$= (x - 1)(x + 9)$

(19) $x^2 - 12x + 36$
$= (x - 6)^2$

(20) $9x^2 - 16$
$= (3x - 4)(3x + 4)$

因数分解 基本（20問）　版Bの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 + 11x + 30$
$= (x + 5)(x + 6)$

(2) $16x^2 - 25$
$= (4x - 5)(4x + 5)$

(3) $x^2 - 8x + 16$
$= (x - 4)^2$

(4) $x^2 - 5x$
$= x(x - 5)$

(5) $x^2 - 14x + 45$
$= (x - 9)(x - 5)$

(6) $x^2 + 2x + 1$
$= (x + 1)^2$

(7) $x^2 + 4x - 12$
$= (x - 2)(x + 6)$

(8) $x^2 + 14x + 48$
$= (x + 6)(x + 8)$

(9) $x^2 - 10x + 25$
$= (x - 5)^2$

(10) $x^2 - 2x$
$= x(x - 2)$

(11) $x^2 - x - 20$
$= (x - 5)(x + 4)$

(12) $x^2 - 4$
$= (x - 2)(x + 2)$

(13) $x^2 - 9x + 20$
$= (x - 5)(x - 4)$

(14) $x^2 - x - 2$
$= (x - 2)(x + 1)$

(15) $16x^2 - 49$
$= (4x - 7)(4x + 7)$

(16) $9x^2 - 25$
$= (3x - 5)(3x + 5)$

(17) $x^2 + 2x - 15$
$= (x - 3)(x + 5)$

(18) $x^2 + 14x + 49$
$= (x + 7)^2$

(19) $6x^2 + 48x$
$= 6x(x + 8)$

(20) $x^2 + 8x + 12$
$= (x + 2)(x + 6)$

因数分解 基本（20問）　版Cの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 + 13x + 36$
$= (x + 4)(x + 9)$

(2) $6x^2 - 12x$
$= 6x(x - 2)$

(3) $16x^2 - 81$
$= (4x - 9)(4x + 9)$

(4) $x^2 - 6x - 16$
$= (x - 8)(x + 2)$

(5) $x^2 - x - 42$
$= (x - 7)(x + 6)$

(6) $x^2 + 16x + 64$
$= (x + 8)^2$

(7) $5x^2 + 30x$
$= 5x(x + 6)$

(8) $x^2 - 4x - 5$
$= (x - 5)(x + 1)$

(9) $x^2 + 14x + 49$
$= (x + 7)^2$

(10) $x^2 - 3x - 40$
$= (x - 8)(x + 5)$

(11) $x^2 - 2x - 24$
$= (x - 6)(x + 4)$

(12) $x^2 + 5x + 6$
$= (x + 2)(x + 3)$

(13) $x^2 - 4x + 3$
$= (x - 3)(x - 1)$

(14) $4x^2 - 49$
$= (2x - 7)(2x + 7)$

(15) $9x^2 - 4$
$= (3x - 2)(3x + 2)$

(16) $2x^2 + 16x$
$= 2x(x + 8)$

(17) $x^2 + 6x + 8$
$= (x + 2)(x + 4)$

(18) $4x^2 - 81$
$= (2x - 9)(2x + 9)$

(19) $x^2 + 8x + 16$
$= (x + 4)^2$

(20) $x^2 + 6x + 9$
$= (x + 3)^2$

因数分解 基本（20問）　版Dの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 - 8x + 12$
$= (x - 6)(x - 2)$

(2) $x^2 - 64$
$= (x - 8)(x + 8)$

(3) $4x^2 - 9$
$= (2x - 3)(2x + 3)$

(4) $x^2 - 4x - 21$
$= (x - 7)(x + 3)$

(5) $x^2 + 17x + 72$
$= (x + 8)(x + 9)$

(6) $x^2 + 3x - 10$
$= (x - 2)(x + 5)$

(7) $x^2 + 10x + 25$
$= (x + 5)^2$

(8) $x^2 - x - 6$
$= (x - 3)(x + 2)$

(9) $2x^2 + 10x$
$= 2x(x + 5)$

(10) $x^2 + 14x + 49$
$= (x + 7)^2$

(11) $x^2 - 7x + 12$
$= (x - 4)(x - 3)$

(12) $5x^2 + 45x$
$= 5x(x + 9)$

(13) $x^2 - 9x + 20$
$= (x - 5)(x - 4)$

(14) $x^2 - 10x + 25$
$= (x - 5)^2$

(15) $4x^2 - 49$
$= (2x - 7)(2x + 7)$

(16) $9x^2 - 16$
$= (3x - 4)(3x + 4)$

(17) $x^2 - 4x + 4$
$= (x - 2)^2$

(18) $x^2 + 6x$
$= x(x + 6)$

(19) $x^2 - 6x - 27$
$= (x - 9)(x + 3)$

(20) $x^2 - 7x + 10$
$= (x - 5)(x - 2)$

因数分解 基本（20問）　版Eの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 + 3x - 10$
$= (x - 2)(x + 5)$

(2) $x^2 + 7x + 10$
$= (x + 2)(x + 5)$

(3) $9x^2 - 25$
$= (3x - 5)(3x + 5)$

(4) $x^2 - 3x$
$= x(x - 3)$

(5) $4x^2 - 81$
$= (2x - 9)(2x + 9)$

(6) $x^2 + 3x - 18$
$= (x - 3)(x + 6)$

(7) $x^2 + 4x + 4$
$= (x + 2)^2$

(8) $x^2 + 14x + 48$
$= (x + 6)(x + 8)$

(9) $x^2 + 12x + 36$
$= (x + 6)^2$

(10) $6x^2 + 24x$
$= 6x(x + 4)$

(11) $x^2 + 2x - 3$
$= (x - 1)(x + 3)$

(12) $x^2 - 4x - 32$
$= (x - 8)(x + 4)$

(13) $x^2 - 12x + 35$
$= (x - 7)(x - 5)$

(14) $x^2 - 10x + 21$
$= (x - 7)(x - 3)$

(15) $x^2 - 14x + 49$
$= (x - 7)^2$

(16) $9x^2 - 1$
$= (3x - 1)(3x + 1)$

(17) $16x^2 - 81$
$= (4x - 9)(4x + 9)$

(18) $x^2 + 6x + 9$
$= (x + 3)^2$

(19) $x^2 - x - 42$
$= (x - 7)(x + 6)$

(20) $4x^2 + 4x$
$= 4x(x + 1)$

因数分解 基本（20問）　版Fの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 + 7x$
$= x(x + 7)$

(2) $x^2 - 8x + 16$
$= (x - 4)^2$

(3) $4x^2 - 1$
$= (2x - 1)(2x + 1)$

(4) $x^2 - 1$
$= (x - 1)(x + 1)$

(5) $2x^2 + 18x$
$= 2x(x + 9)$

(6) $x^2 + 10x + 9$
$= (x + 1)(x + 9)$

(7) $x^2 + 4x + 4$
$= (x + 2)^2$

(8) $x^2 + 2x - 8$
$= (x - 2)(x + 4)$

(9) $x^2 + 6x - 16$
$= (x - 2)(x + 8)$

(10) $x^2 + 12x + 36$
$= (x + 6)^2$

(11) $x^2 - 49$
$= (x - 7)(x + 7)$

(12) $x^2 - 12x + 35$
$= (x - 7)(x - 5)$

(13) $9x^2 - 25$
$= (3x - 5)(3x + 5)$

(14) $x^2 + x - 6$
$= (x - 2)(x + 3)$

(15) $x^2 - x - 42$
$= (x - 7)(x + 6)$

(16) $x^2 + 12x + 32$
$= (x + 4)(x + 8)$

(17) $x^2 - 4x - 21$
$= (x - 7)(x + 3)$

(18) $x^2 + 16x + 64$
$= (x + 8)^2$

(19) $2x^2 - 6x$
$= 2x(x - 3)$

(20) $x^2 - 13x + 42$
$= (x - 7)(x - 6)$

因数分解 基本（20問）　版Gの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 - 25$
$= (x - 5)(x + 5)$

(2) $x^2 - 64$
$= (x - 8)(x + 8)$

(3) $5x^2 + 40x$
$= 5x(x + 8)$

(4) $x^2 - x - 42$
$= (x - 7)(x + 6)$

(5) $x^2 - 8x + 7$
$= (x - 7)(x - 1)$

(6) $x^2 - 2x + 1$
$= (x - 1)^2$

(7) $x^2 + 2x + 1$
$= (x + 1)^2$

(8) $x^2 + 3x - 4$
$= (x - 1)(x + 4)$

(9) $x^2 - 49$
$= (x - 7)(x + 7)$

(10) $x^2 - x - 12$
$= (x - 4)(x + 3)$

(11) $x^2 - 15x + 54$
$= (x - 9)(x - 6)$

(12) $x^2 + 4x + 4$
$= (x + 2)^2$

(13) $x^2 - 2x - 63$
$= (x - 9)(x + 7)$

(14) $9x^2 - 25$
$= (3x - 5)(3x + 5)$

(15) $x^2 - 13x + 40$
$= (x - 8)(x - 5)$

(16) $x^2 + 8x + 16$
$= (x + 4)^2$

(17) $6x^2 + 48x$
$= 6x(x + 8)$

(18) $x^2 + 5x - 6$
$= (x - 1)(x + 6)$

(19) $3x^2 - 15x$
$= 3x(x - 5)$

(20) $x^2 - 12x + 32$
$= (x - 8)(x - 4)$

因数分解 基本（20問）　版Hの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $16x^2 - 25$
$= (4x - 5)(4x + 5)$

(2) $9x^2 - 25$
$= (3x - 5)(3x + 5)$

(3) $x^2 + 3x + 2$
$= (x + 1)(x + 2)$

(4) $x^2 - 10x + 25$
$= (x - 5)^2$

(5) $2x^2 + 10x$
$= 2x(x + 5)$

(6) $x^2 - 7x + 12$
$= (x - 4)(x - 3)$

(7) $x^2 - 12x + 32$
$= (x - 8)(x - 4)$

(8) $x^2 + 15x + 56$
$= (x + 7)(x + 8)$

(9) $x^2 + 12x + 36$
$= (x + 6)^2$

(10) $4x^2 - 1$
$= (2x - 1)(2x + 1)$

(11) $16x^2 - 49$
$= (4x - 7)(4x + 7)$

(12) $x^2 + 6x + 9$
$= (x + 3)^2$

(13) $4x^2 - 24x$
$= 4x(x - 6)$

(14) $x^2 - 5x - 24$
$= (x - 8)(x + 3)$

(15) $x^2 + 3x - 40$
$= (x - 5)(x + 8)$

(16) $x^2 - 6x + 8$
$= (x - 4)(x - 2)$

(17) $x^2 - 4x$
$= x(x - 4)$

(18) $x^2 - 10x + 24$
$= (x - 6)(x - 4)$

(19) $x^2 + 10x + 25$
$= (x + 5)^2$

(20) $x^2 + 6x - 27$
$= (x - 3)(x + 9)$

因数分解 基本（20問）　版Iの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 - 8x + 16$
$= (x - 4)^2$

(2) $x^2 - 6x + 5$
$= (x - 5)(x - 1)$

(3) $4x^2 + 24x$
$= 4x(x + 6)$

(4) $x^2 + 11x + 18$
$= (x + 2)(x + 9)$

(5) $x^2 + 2x - 63$
$= (x - 7)(x + 9)$

(6) $4x^2 - 25$
$= (2x - 5)(2x + 5)$

(7) $x^2 - 81$
$= (x - 9)(x + 9)$

(8) $6x^2 + 12x$
$= 6x(x + 2)$

(9) $x^2 - 2x - 15$
$= (x - 5)(x + 3)$

(10) $3x^2 - 21x$
$= 3x(x - 7)$

(11) $x^2 + 5x - 14$
$= (x - 2)(x + 7)$

(12) $x^2 + 9x + 20$
$= (x + 4)(x + 5)$

(13) $x^2 - x - 30$
$= (x - 6)(x + 5)$

(14) $x^2 - 2x + 1$
$= (x - 1)^2$

(15) $x^2 + x - 72$
$= (x - 8)(x + 9)$

(16) $x^2 - 6x + 9$
$= (x - 3)^2$

(17) $x^2 + x - 20$
$= (x - 4)(x + 5)$

(18) $x^2 + 12x + 36$
$= (x + 6)^2$

(19) $9x^2 - 49$
$= (3x - 7)(3x + 7)$

(20) $x^2 - 4$
$= (x - 2)(x + 2)$

因数分解 基本（20問）　版Jの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 - 5x - 14$
$= (x - 7)(x + 2)$

(2) $x^2 - 2x - 35$
$= (x - 7)(x + 5)$

(3) $5x^2 + 10x$
$= 5x(x + 2)$

(4) $x^2 + 14x + 48$
$= (x + 6)(x + 8)$

(5) $x^2 - 9x + 18$
$= (x - 6)(x - 3)$

(6) $x^2 - 64$
$= (x - 8)(x + 8)$

(7) $x^2 - 7x - 8$
$= (x - 8)(x + 1)$

(8) $4x^2 - 24x$
$= 4x(x - 6)$

(9) $x^2 - 10x + 9$
$= (x - 9)(x - 1)$

(10) $x^2 + 14x + 49$
$= (x + 7)^2$

(11) $x^2 + 18x + 81$
$= (x + 9)^2$

(12) $16x^2 - 49$
$= (4x - 7)(4x + 7)$

(13) $16x^2 - 1$
$= (4x - 1)(4x + 1)$

(14) $x^2 - 6x - 7$
$= (x - 7)(x + 1)$

(15) $x^2 + 16x + 64$
$= (x + 8)^2$

(16) $x^2 + 4x + 3$
$= (x + 1)(x + 3)$

(17) $4x^2 - 49$
$= (2x - 7)(2x + 7)$

(18) $x^2 - 4x + 4$
$= (x - 2)^2$

(19) $x^2 + 10x + 9$
$= (x + 1)(x + 9)$

(20) $6x^2 + 6x$
$= 6x(x + 1)$

因数分解 基本（20問）　版Kの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 - 7x - 18$
$= (x - 9)(x + 2)$

(2) $6x^2 - 54x$
$= 6x(x - 9)$

(3) $16x^2 - 25$
$= (4x - 5)(4x + 5)$

(4) $x^2 - 11x + 18$
$= (x - 9)(x - 2)$

(5) $6x^2 + 48x$
$= 6x(x + 8)$

(6) $6x^2 + 12x$
$= 6x(x + 2)$

(7) $x^2 - 36$
$= (x - 6)(x + 6)$

(8) $x^2 + 14x + 49$
$= (x + 7)^2$

(9) $4x^2 - 49$
$= (2x - 7)(2x + 7)$

(10) $x^2 - 12x + 27$
$= (x - 9)(x - 3)$

(11) $x^2 - 18x + 81$
$= (x - 9)^2$

(12) $x^2 - 6x + 9$
$= (x - 3)^2$

(13) $x^2 - 10x + 24$
$= (x - 6)(x - 4)$

(14) $x^2 + 2x - 15$
$= (x - 3)(x + 5)$

(15) $x^2 - 5x + 6$
$= (x - 3)(x - 2)$

(16) $x^2 + 3x - 10$
$= (x - 2)(x + 5)$

(17) $x^2 - 7x + 10$
$= (x - 5)(x - 2)$

(18) $9x^2 - 64$
$= (3x - 8)(3x + 8)$

(19) $x^2 + 10x + 25$
$= (x + 5)^2$

(20) $x^2 + 4x - 5$
$= (x - 1)(x + 5)$

因数分解 基本（20問）　版Lの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 - 4x - 12$
$= (x - 6)(x + 2)$

(2) $x^2 + 6x + 9$
$= (x + 3)^2$

(3) $9x^2 - 49$
$= (3x - 7)(3x + 7)$

(4) $4x^2 - 49$
$= (2x - 7)(2x + 7)$

(5) $x^2 - 11x + 24$
$= (x - 8)(x - 3)$

(6) $x^2 - 6x + 9$
$= (x - 3)^2$

(7) $x^2 - x - 20$
$= (x - 5)(x + 4)$

(8) $5x^2 + 20x$
$= 5x(x + 4)$

(9) $6x^2 - 6x$
$= 6x(x - 1)$

(10) $x^2 - 5x - 14$
$= (x - 7)(x + 2)$

(11) $x^2 - 2x - 3$
$= (x - 3)(x + 1)$

(12) $x^2 + 12x + 36$
$= (x + 6)^2$

(13) $x^2 + 12x + 35$
$= (x + 5)(x + 7)$

(14) $x^2 + 9x + 20$
$= (x + 4)(x + 5)$

(15) $9x^2 - 25$
$= (3x - 5)(3x + 5)$

(16) $2x^2 - 8x$
$= 2x(x - 4)$

(17) $x^2 - 81$
$= (x - 9)(x + 9)$

(18) $x^2 + 10x + 24$
$= (x + 4)(x + 6)$

(19) $x^2 - 7x - 18$
$= (x - 9)(x + 2)$

(20) $x^2 - 4x + 4$
$= (x - 2)^2$

因数分解 基本（20問）　版Mの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $9x^2 - 1$
$= (3x - 1)(3x + 1)$

(2) $5x^2 - 45x$
$= 5x(x - 9)$

(3) $x^2 - 11x + 30$
$= (x - 6)(x - 5)$

(4) $x^2 - 10x + 9$
$= (x - 9)(x - 1)$

(5) $x^2 + 2x - 15$
$= (x - 3)(x + 5)$

(6) $4x^2 - 49$
$= (2x - 7)(2x + 7)$

(7) $x^2 + 2x - 24$
$= (x - 4)(x + 6)$

(8) $x^2 - 9$
$= (x - 3)(x + 3)$

(9) $x^2 - 10x + 16$
$= (x - 8)(x - 2)$

(10) $x^2 + 4x + 4$
$= (x + 2)^2$

(11) $x^2 + 6x + 9$
$= (x + 3)^2$

(12) $x^2 + 16x + 64$
$= (x + 8)^2$

(13) $4x^2 + 20x$
$= 4x(x + 5)$

(14) $16x^2 - 1$
$= (4x - 1)(4x + 1)$

(15) $x^2 - 6x$
$= x(x - 6)$

(16) $x^2 - 8x + 16$
$= (x - 4)^2$

(17) $x^2 + x - 6$
$= (x - 2)(x + 3)$

(18) $x^2 - 8x + 7$
$= (x - 7)(x - 1)$

(19) $x^2 + 12x + 32$
$= (x + 4)(x + 8)$

(20) $x^2 + 13x + 36$
$= (x + 4)(x + 9)$

因数分解 基本（20問）　版Nの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 - 9x + 8$
$= (x - 8)(x - 1)$

(2) $x^2 + 9x + 20$
$= (x + 4)(x + 5)$

(3) $x^2 - 11x + 28$
$= (x - 7)(x - 4)$

(4) $x^2 + 3x + 2$
$= (x + 1)(x + 2)$

(5) $x^2 + 14x + 49$
$= (x + 7)^2$

(6) $x^2 + 17x + 72$
$= (x + 8)(x + 9)$

(7) $16x^2 - 25$
$= (4x - 5)(4x + 5)$

(8) $x^2 - 4x + 4$
$= (x - 2)^2$

(9) $4x^2 - 20x$
$= 4x(x - 5)$

(10) $5x^2 + 20x$
$= 5x(x + 4)$

(11) $16x^2 - 9$
$= (4x - 3)(4x + 3)$

(12) $x^2 + 4x - 45$
$= (x - 5)(x + 9)$

(13) $9x^2 - 16$
$= (3x - 4)(3x + 4)$

(14) $x^2 + x - 72$
$= (x - 8)(x + 9)$

(15) $9x^2 - 25$
$= (3x - 5)(3x + 5)$

(16) $x^2 + 14x + 48$
$= (x + 6)(x + 8)$

(17) $x^2 + 2x + 1$
$= (x + 1)^2$

(18) $x^2 + 6x + 9$
$= (x + 3)^2$

(19) $6x^2 - 6x$
$= 6x(x - 1)$

(20) $x^2 + 6x - 7$
$= (x - 1)(x + 7)$

因数分解 基本（20問）　版Oの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 + x - 6$
$= (x - 2)(x + 3)$

(2) $x^2 - 1$
$= (x - 1)(x + 1)$

(3) $x^2 + 8x + 16$
$= (x + 4)^2$

(4) $x^2 + 2x - 24$
$= (x - 4)(x + 6)$

(5) $x^2 + 15x + 56$
$= (x + 7)(x + 8)$

(6) $x^2 - x - 2$
$= (x - 2)(x + 1)$

(7) $16x^2 - 1$
$= (4x - 1)(4x + 1)$

(8) $x^2 - 13x + 40$
$= (x - 8)(x - 5)$

(9) $2x^2 - 16x$
$= 2x(x - 8)$

(10) $x^2 - 2x + 1$
$= (x - 1)^2$

(11) $5x^2 + 5x$
$= 5x(x + 1)$

(12) $6x^2 - 36x$
$= 6x(x - 6)$

(13) $x^2 + 8x + 15$
$= (x + 3)(x + 5)$

(14) $x^2 + 2x - 3$
$= (x - 1)(x + 3)$

(15) $4x^2 - 49$
$= (2x - 7)(2x + 7)$

(16) $x^2 - 18x + 81$
$= (x - 9)^2$

(17) $x^2 + 17x + 72$
$= (x + 8)(x + 9)$

(18) $x^2 + 16x + 64$
$= (x + 8)^2$

(19) $x^2 - 49$
$= (x - 7)(x + 7)$

(20) $x^2 + 12x + 35$
$= (x + 5)(x + 7)$

因数分解 基本（20問）　版Pの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 + 5x - 24$
$= (x - 3)(x + 8)$

(2) $x^2 + 16x + 64$
$= (x + 8)^2$

(3) $x^2 + 6x$
$= x(x + 6)$

(4) $9x^2 - 49$
$= (3x - 7)(3x + 7)$

(5) $x^2 - x - 42$
$= (x - 7)(x + 6)$

(6) $4x^2 - 81$
$= (2x - 9)(2x + 9)$

(7) $4x^2 - 9$
$= (2x - 3)(2x + 3)$

(8) $x^2 + 11x + 30$
$= (x + 5)(x + 6)$

(9) $x^2 + 2x - 35$
$= (x - 5)(x + 7)$

(10) $x^2 + 12x + 36$
$= (x + 6)^2$

(11) $x^2 - 10x + 21$
$= (x - 7)(x - 3)$

(12) $x^2 - 64$
$= (x - 8)(x + 8)$

(13) $2x^2 - 18x$
$= 2x(x - 9)$

(14) $x^2 - 4x + 4$
$= (x - 2)^2$

(15) $2x^2 - 16x$
$= 2x(x - 8)$

(16) $x^2 - 8x + 12$
$= (x - 6)(x - 2)$

(17) $x^2 + 6x + 8$
$= (x + 2)(x + 4)$

(18) $x^2 - 12x + 32$
$= (x - 8)(x - 4)$

(19) $x^2 + 6x - 7$
$= (x - 1)(x + 7)$

(20) $x^2 - 10x + 25$
$= (x - 5)^2$

因数分解 基本（20問）　版Qの答え

※ 答えは、展開して元の式に戻るかで自分で確かめられます。

---

(1) $x^2 - 12x + 32$
$= (x - 8)(x - 4)$

(2) $x^2 + 8x + 16$
$= (x + 4)^2$

(3) $x^2 - 13x + 40$
$= (x - 8)(x - 5)$

(4) $9x^2 - 25$
$= (3x - 5)(3x + 5)$

(5) $3x^2 - 18x$
$= 3x(x - 6)$

(6) $x^2 + 4x$
$= x(x + 4)$

(7) $4x^2 - 32x$
$= 4x(x - 8)$

(8) $x^2 - 4x + 4$
$= (x - 2)^2$

(9) $x^2 + x - 2$
$= (x - 1)(x + 2)$

(10) $x^2 - 81$
$= (x - 9)(x + 9)$

(11) $x^2 - 7x - 18$
$= (x - 9)(x + 2)$

(12) $9x^2 - 4$
$= (3x - 2)(3x + 2)$

(13) $x^2 - 64$
$= (x - 8)(x + 8)$

(14) $x^2 - 5x - 14$
$= (x - 7)(x + 2)$

(15) $x^2 - 5x + 6$
$= (x - 3)(x - 2)$

(16) $x^2 - 2x + 1$
$= (x - 1)^2$

(17) $x^2 - 3x - 4$
$= (x - 4)(x + 1)$

(18) $x^2 - 8x + 7$
$= (x - 7)(x - 1)$

(19) $x^2 + 2x + 1$
$= (x + 1)^2$

(20) $x^2 + 5x + 4$
$= (x + 1)(x + 4)$