因数分解 基本（20問）　版H

なまえ：＿＿＿＿＿＿＿＿＿＿＿＿　　日づけ：＿＿＿＿＿＿

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