因数分解 基本（20問）　版M

なまえ：＿＿＿＿＿＿＿＿＿＿＿＿　　日づけ：＿＿＿＿＿＿

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