因数分解 基本（20問）　版A

なまえ：＿＿＿＿＿＿＿＿＿＿＿＿　　日づけ：＿＿＿＿＿＿

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