微分 導関数（16問）　版Lの答え

※ 定数項は微分すると0になります。消し忘れていないかを見てください。

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(1) $y = (x - 5)(3x + 1)$
$y' = 6x - 14$

(2) $y = 4x^4 + 7x^3 + 6x^2 + 9x - 7$
$y' = 16x^3 + 21x^2 + 12x + 9$

(3) $y = (x + 6)(x + 4)$
$y' = 2x + 10$

(4) $y = 3x^3 - 4x^2 - 9x + 8$
$y' = 9x^2 - 8x - 9$

(5) $y = 4x^3 - 9x^2 + 9x - 9$
$y' = 12x^2 - 18x + 9$

(6) $y = 4x^4 + 3x^2 + 4$
$y' = 16x^3 + 6x$

(7) $y = x^2 - x - 2$
$y' = 2x - 1$

(8) $y = -2x^3 - 3x^2 - 7x + 1$
$y' = -6x^2 - 6x - 7$

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

(10) $y = (x - 3)(2x - 2)$
$y' = 4x - 8$

(11) $y = (3x - 2)(2x - 5)$
$y' = 12x - 19$

(12) $y = 4x^4 - 6x^3 + 2x^2 + 5x + 9$
$y' = 16x^3 - 18x^2 + 4x + 5$

(13) $y = -2x^2 - 5x + 6$
$y' = -4x - 5$

(14) $y = x^4 + 8x^3 - 3x^2 - x - 1$
$y' = 4x^3 + 24x^2 - 6x - 1$

(15) $y = -2x^2 - 6x - 7$
$y' = -4x - 6$

(16) $y = 4x^3 - 9x^2 + 9x + 5$
$y' = 12x^2 - 18x + 9$