微分 導関数（16問）　版G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) $y = (2x + 4)(x - 3)$
$y' = 4x - 2$

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

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

(4) $y = (x + 1)(2x - 2)$
$y' = 4x$

(5) $y = (2x + 2)(2x - 4)$
$y' = 8x - 4$

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

(7) $y = (2x + 5)(2x - 6)$
$y' = 8x - 2$

(8) $y = -5x^3 + 9x^2 - 5x$
$y' = -15x^2 + 18x - 5$

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

(10) $y = -3x^4 + 5x^3 - 7x^2 + 4x - 1$
$y' = -12x^3 + 15x^2 - 14x + 4$

(11) $y = -5x^4 + 2x^3 + 9x^2 + 3x - 3$
$y' = -20x^3 + 6x^2 + 18x + 3$

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

(13) $y = 2x^4 - 7x^3 + 6x^2 - 2$
$y' = 8x^3 - 21x^2 + 12x$

(14) $y = 2x^2 + 5x - 8$
$y' = 4x + 5$

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

(16) $y = -4x^3 + 4x^2 - 5x + 1$
$y' = -12x^2 + 8x - 5$