微分 導関数（16問）　版N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) $y = 2x^3 + 6x^2 - x - 8$
$y' = 6x^2 + 12x - 1$

(2) $y = (2x + 2)(x + 5)$
$y' = 4x + 12$

(3) $y = 5x^3 - 6x^2 + 8x + 4$
$y' = 15x^2 - 12x + 8$

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

(5) $y = (x - 5)(3x + 4)$
$y' = 6x - 11$

(6) $y = -5x^2 + 8x - 5$
$y' = -10x + 8$

(7) $y = -x^3 - 9x^2 + 8x - 6$
$y' = -3x^2 - 18x + 8$

(8) $y = -5x^3 + 2x^2 - 2x + 3$
$y' = -15x^2 + 4x - 2$

(9) $y = 3x^3 - 7x^2 - 7x + 9$
$y' = 9x^2 - 14x - 7$

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

(11) $y = -2x^4 + 9x^3 + 7x^2 + 9x + 4$
$y' = -8x^3 + 27x^2 + 14x + 9$

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

(13) $y = -x^3 - 4x^2 + 6x - 9$
$y' = -3x^2 - 8x + 6$

(14) $y = (2x + 1)(3x - 2)$
$y' = 12x - 1$

(15) $y = 5x^3 + 8x^2 + 7x + 8$
$y' = 15x^2 + 16x + 7$

(16) $y = -5x^3 - 2x^2 + 8x - 8$
$y' = -15x^2 - 4x + 8$