微分 導関数（16問）　版D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) $y = 2x^3 + 5x^2 - 7x + 1$
$y' = 6x^2 + 10x - 7$

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

(3) $y = (2x - 2)(3x - 4)$
$y' = 12x - 14$

(4) $y = -5x^3 + 8x^2 - 6x - 6$
$y' = -15x^2 + 16x - 6$

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

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

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

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

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

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

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

(12) $y = -2x^4 - 6x^3 - x^2 - 3x + 5$
$y' = -8x^3 - 18x^2 - 2x - 3$

(13) $y = -x^4 - 5x^3 + 5x^2 + 3x - 5$
$y' = -4x^3 - 15x^2 + 10x + 3$

(14) $y = -x^4 + 3x^3 - 5x^2 + 7x + 9$
$y' = -4x^3 + 9x^2 - 10x + 7$

(15) $y = (x - 5)(3x + 2)$
$y' = 6x - 13$

(16) $y = 4x^4 - 3x^3 + 7x + 1$
$y' = 16x^3 - 9x^2 + 7$