微分 導関数（16問）　版A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) $y = -4x^4 + 8x^3 - 2x^2 + x - 6$
$y' = -16x^3 + 24x^2 - 4x + 1$

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

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

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

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

(6) $y = -x^3 - 8x^2 - 9x + 2$
$y' = -3x^2 - 16x - 9$

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

(8) $y = (3x + 6)(x + 3)$
$y' = 6x + 15$

(9) $y = 2x^4 - 9x^3 + 9x^2 + 1$
$y' = 8x^3 - 27x^2 + 18x$

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

(11) $y = -2x^4 - 9x^3 - x - 3$
$y' = -8x^3 - 27x^2 - 1$

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

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

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

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

(16) $y = -2x^3 + 8x^2 + 5x - 7$
$y' = -6x^2 + 16x + 5$