微分 導関数（16問）　版O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) $y = 4x^2 + 8x - 5$
$y' = 8x + 8$

(2) $y = -x^4 - 5x^3 - 9x^2 - 2x - 9$
$y' = -4x^3 - 15x^2 - 18x - 2$

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

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

(5) $y = 5x^3 + 7x + 6$
$y' = 15x^2 + 7$

(6) $y = -3x^3 + 7x^2 - 1$
$y' = -9x^2 + 14x$

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

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

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

(10) $y = (x - 1)(3x - 2)$
$y' = 6x - 5$

(11) $y = -2x^3 - 7x^2 - 7x - 4$
$y' = -6x^2 - 14x - 7$

(12) $y = 4x^4 + 8x^3 + 8x^2 + 8x$
$y' = 16x^3 + 24x^2 + 16x + 8$

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

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

(15) $y = (x - 6)(3x + 1)$
$y' = 6x - 17$

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