微分 導関数（16問）　版M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) $y = -2x^4 - 9x^3 + 7x^2 - 3x - 2$
$y' = -8x^3 - 27x^2 + 14x - 3$

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

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

(4) $y = -3x^4 - 5x^3 + 5x^2 - 8x + 5$
$y' = -12x^3 - 15x^2 + 10x - 8$

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

(6) $y = (3x - 1)(2x - 6)$
$y' = 12x - 20$

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

(8) $y = -5x^4 - 3x^3 + 7x^2 - 8x + 5$
$y' = -20x^3 - 9x^2 + 14x - 8$

(9) $y = 3x^2 - 3x + 5$
$y' = 6x - 3$

(10) $y = -3x^4 - 8x^3 + 2x^2 + x - 1$
$y' = -12x^3 - 24x^2 + 4x + 1$

(11) $y = -5x^4 - x^3 + 5x^2 - x + 7$
$y' = -20x^3 - 3x^2 + 10x - 1$

(12) $y = 5x^3 + 4x^2 - 8x + 9$
$y' = 15x^2 + 8x - 8$

(13) $y = -2x^2 + 7x - 1$
$y' = -4x + 7$

(14) $y = (2x - 3)(2x - 6)$
$y' = 8x - 18$

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

(16) $y = (x + 1)(2x + 6)$
$y' = 4x + 8$