微分 導関数（16問）　版K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) $y = -5x^3 + 5x^2 - 8x + 5$
$y' = -15x^2 + 10x - 8$

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

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

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

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

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

(7) $y = -x^3 + 6x^2 + 8x - 6$
$y' = -3x^2 + 12x + 8$

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

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

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

(11) $y = (3x + 5)(2x - 1)$
$y' = 12x + 7$

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

(13) $y = 5x^3 - 8x^2 + 6x - 9$
$y' = 15x^2 - 16x + 6$

(14) $y = (2x - 2)(2x - 1)$
$y' = 8x - 6$

(15) $y = -4x^2 - 7x - 6$
$y' = -8x - 7$

(16) $y = -3x^4 - 2x^3 + 9x^2 - 9x + 7$
$y' = -12x^3 - 6x^2 + 18x - 9$