微分 導関数（16問）　版E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) $y = -3x^2 + 9x + 8$
$y' = -6x + 9$

(2) $y = (x + 6)(x + 5)$
$y' = 2x + 11$

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

(4) $y = 4x^4 + 6x^3 - 5x^2 + 5x - 5$
$y' = 16x^3 + 18x^2 - 10x + 5$

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

(6) $y = -x^3 + 8x^2 + x - 7$
$y' = -3x^2 + 16x + 1$

(7) $y = (x - 3)(2x - 2)$
$y' = 4x - 8$

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

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

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

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

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

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

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

(15) $y = (3x + 2)(2x + 6)$
$y' = 12x + 22$

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