

## 数学 練習問題 (微分・導関数)

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1. 関数の与えられた点における接線を求めよ.

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

答 . \_\_\_\_\_

(2)  $y = 3x - 2$  (1, 1)

答 . \_\_\_\_\_

(3)  $y = x^4 - 3x^2$   $x = 2$

答 . \_\_\_\_\_

2. 次の関数を微分せよ.

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

答 . \_\_\_\_\_

(2)  $y = x^{5.5} - x^{-2}$

答 . \_\_\_\_\_

(3)  $y = x^{7.3} + 4x^{-2.5} + 7$

答 . \_\_\_\_\_

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

答 . \_\_\_\_\_

$$(5) y = \frac{x+3}{x-2}$$

答. \_\_\_\_\_

$$(6) y = \frac{x^2 - x + 2}{x^3 - x^2}$$

答. \_\_\_\_\_

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

答. \_\_\_\_\_

$$(8) y = (2x^6 - 11x^2 + 3)^4$$

答. \_\_\_\_\_