

2011 -					
C/5	15	12- 15	10:	:	/ 3:

(04) :

$$5 \cdot 3^n \quad n \quad (1)$$

$$.5 \cdot 3^{2011} \cdot 3^{2010} \quad (2)$$

$$.3 \times 8^{2010} + 23^{2011} + n \equiv 0 [5] : \quad n \quad (3)$$

(06) :

150

	30	55
	20	45

. (1)

. (2)

. (3)

. (4)

(10) :

$(O; \vec{i}; \vec{j})$

$$. \left[-3; \frac{3}{2} \right] \quad f \quad (C_f)$$

: (1)

$$f(0) \quad f'(0) \quad f'(-2) \quad f(-2) \quad ($$

$$. f \quad ($$

$$. f(x) \leq 0$$

$$f(x) = 0 \quad \left[-3; \frac{3}{2} \right] \quad (\Rightarrow$$

$$M(-1; -2) \quad ($$

$$f(x) = x^3 + 3x^2 - 4 \quad (2)$$

$$(x^2 + 4x + 4)(x - 1) = x^3 + 3x^2 - 4 \quad : \quad x$$

$$f(x) = 0 \quad R \quad ($$

$$(C_f) \quad (\rightarrow$$

