

2010 -		
10 - 8 :	:	3 :

(5) :

$(2+i)^2$ -1

$\left(Z - \frac{1}{2} - i\frac{\sqrt{3}}{2} \right) (Z^2 + iZ - i - i) = 0$: C -2

Z_3 Z_3 Z_2 Z_1 -3

Z_2 $\frac{Z_1}{Z_2}$ (

$\frac{Z_1}{Z_2}$ (

$\sin \frac{11\pi}{12}$ $\cos \frac{11\pi}{12}$ (

(5) :

$-x + 3y + 3z + 2 = 0$ $3x + 2y - z + 1 = 0$: (π') (π)

$C\left(2; \frac{-21}{8}; \frac{7}{4}\right)$ $B(0;0;1)$ $A(1;1;6)$

:

(π') (π) (1

(π) (ABC) (2

(π') (π) C (3

(π') (AB) (4

$\frac{20}{\sqrt{19}}$: (π') A (5

(10) :

$$f(x) = \frac{x}{x+2} + \ln(x+2) :]-2; +\infty[\quad f \quad -I$$

$$. f \quad (1)$$

$$. \lim_{x \rightarrow +\infty} f(x) \quad \lim_{x \rightarrow -2} f(x) \quad (2)$$

$$. \left] \frac{-3}{5}; \frac{-1}{2} \right[\quad \alpha \quad f(x) = 0 \quad (3)$$

$$. f(x) \quad (4)$$

$$g(x) = 1 + x \ln(x+2) :]-2; +\infty[\quad g \quad -II$$

. 2cm $(O; \vec{i}, \vec{j})$ (C_g)

$$. g \quad (1)$$

$$. \lim_{x \rightarrow +\infty} g(x) \quad \lim_{x \rightarrow -2} g(x) \quad (2)$$

$$. g \quad (3)$$

$$. -1 \quad (C_g) \quad (4)$$

$$. g(\alpha) = 1 - \frac{\alpha^2}{\alpha+2} : \quad (5)$$

$$. (C_g) \quad g(\alpha) \quad \alpha = -0,55 \quad (6)$$