

2011 -			
B/6	10 - 8 :	:	3 :

(04) :

$$. 6x - 7y = 22 : Z^2 \quad (1)$$

$$\overline{13\alpha\beta} \quad 7 \quad n \quad (2)$$

$$. \overline{10\beta\alpha} \quad 8$$

(05) :

$$\begin{cases} U_0 = e \\ U_{n+1} = \sqrt{U_n} \end{cases} \quad N \quad (U_n) \quad (1)$$

$$. U_n > 1 : n \quad ($$

$$(U_n) \quad ($$

$$. V_n = \ln(U_n) : N \quad (V_n) \quad (2)$$

$$(V_n) \quad ($$

$$. n \quad U_n \quad n \quad V_n \quad ($$

$$. (U_n) \quad (\Rightarrow$$

(05) :

$$. (O; \vec{i}; \vec{j}; \vec{k}) \quad (E)$$

$$x^2 + y^2 + z^2 - 4y + 2z + 2 = 0 : M(x; y; z) \quad (S)$$

$$. \sqrt{3} \quad \omega(0; 2; -1) \quad (S) \quad (1)$$

$$. (S) \quad A(-1; 1; 0) \quad (2)$$

$$. A \quad (S) \quad (P) \quad ($$

(06) :

$$f(x) = \sqrt{x^2 - 2x + 2} : R \quad f$$

$$(O; \vec{i}; \vec{j}) \quad f \quad (C_f)$$

$$. f \quad (1)$$

$$(\Delta') : y = x - 1 \quad -\infty \quad (C_f) \quad (\Delta) : y = -x + 1 \quad (2)$$

$$. +\infty \quad (C_f)$$

$$\begin{array}{rclcl}
 & \cdot (C_f) & x=1 & (\Delta) & (3) \\
 \cdot -\frac{\sqrt{2}}{2} & (C_f) & & (C_f) \ A & (4) \\
 & & & \cdot (C_f) & (5) \\
 \cdot g(x) = \sqrt{x^2 - 2|x| + 2} : & & R & & g \ (6) \\
 & \cdot (C_g) & & g &
 \end{array}$$