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| 1 / 3 | | |
| 3 | | 2006 |
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(2.5) :

$$\begin{cases} u_0 = 4 \\ u_{n+1} = \frac{1}{4}u_n + \frac{9}{4} \end{cases} : (u_n)$$

(n) $v_n = u_n + k$: (v_n)

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v_n u_n v_{n+1} (1)

(v_n) k (2)

(v_n) و (u_n) (3)

(2.5) :

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

$C(0; -2; 1)$ و $B(1; -1; 3)$ و $A(2; 0; 2)$

$\vec{AB} \wedge \vec{AC}$ (1)

ABC (2)

2 و B ABC A (S) (3)

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(3.5) :

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.

: -1

" : J

" : B

" : R

" : V

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| | : | | | - 2 |
| | | . | 10 | - |
| | | . | | - |
| | | . | 3 | - |
| | | . | | - |
| ان ان1.5 | | . | X | - |
| | | . | X | - |
| | | . | $V(X)$ | - |
| | | . | $E(X)$ | - |
| | | | | - |
| | | | (ن3) : | |
| ان | | $(E) : z^3 - 8z^2 + 24z - 32 = 0$ | : | C |
| | : | c و b و a | . | (E) |
| | | | $z_0 = 4$ | : |
| | | | | - 1 |
| ان | | $(E) : (z - 4)(az^2 + bz + c) = 0$ | | |
| | $\text{Im}(z_2) \leq 0$ | و | $\text{Im}(z_1) \geq 0$ | |
| | | | z_2 و z_1 | . |
| | | | (E) | - 2 |
| ان | (ζ) | $z_2 ; z_1 ; z_0$ | . | z_2 و z_1 |
| | | | $M_2 ; M_1 ; M_0$ | - 3 |
| | | . | $R = 2$ | $\omega = 2$ |
| | | | | Ω |
| | | | | - |
| | | | | (8.5) : |
| | | | | : |
| ان0.25 | | $f(x) = \frac{x+2}{x+1} + \ln x+1 $ | : | x |
| | | | . | f |
| | | | D_f | - (1) |
| ان0.5 | | $f(x) = \frac{x+2+(x+1)\ln x+1 }{x+1}$ | : | D_f |
| | | | . | x |
| | | | . | - 1 |
| ان | | | (| -) f |
| | | | | - |
| ان0.5 | | . | $(0; \vec{i}; \vec{j})$ | . |
| | | | . | f |
| | | | | (C) |
| | | | | (2) |
| | | | | - |
| | | | | (C) |
| | | | | - |
| | | . | I | - 2 |
| | | | | - |
| ان0.5 | | | . | (C) |
| | | | | - |

0.5

$(\ln(2)=0,7) \cdot (C) -$

0.5

$\cdot D_f \quad x \quad f(x) \quad (3)$

$$\begin{cases} g(x) = e^{(x+2)\ln|x+1|}, & x \neq -1 \\ g(-1) = 0 \end{cases} : \quad x \quad g$$

0.5

$g(x) = |x+1| \cdot e^{(x+1)\ln|x+1|} : \quad -1 \quad x \quad - \quad (1)$

0.25

$\cdot -1 \quad g \quad -$

0.5

$\cdot -1 \quad g \quad -$

1

$(\quad (3) \quad) (\quad - \quad) g \quad (2)$

$\cdot (\Omega; \vec{u}; \vec{v}) \quad , \quad , \quad g \quad (\Gamma) \quad (3)$

0.5

$\cdot (\Gamma) \quad -$

1

$\cdot (\quad) (\Gamma) \quad -$

1

$\cdot m \quad x \in IR : m^{\frac{1}{x+2}} = |x+1| : \quad (4)$

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