[((),(!),(!)) LTER\*,7, P-APBAZIAASY 273E7 P=((!!)

f17 (1) ta~ 5 kin 70.(2 V== C (1)

(c)
(b) ±1) (12/4 ± \$ A x (3) \$ 6 5 6 4 8 3 9 & 3 × 2 A 13 27 B ACG) RE.

(2) a, 10, + a, 10, + a, 10 = 0 E 73 左からみをかけると a, AR, fazARzfasARs = P : 2017c1 + 2027c2 + 303 +C3 = 0 (2) - 2 × (1) I (1) as 2c3 = 0 たっきは ちょど a3 = 0 2 € E 3 RAVX. 20, 1c, + 202 1c2 = 1 れてれるはりはなまないへと Q1 = Q2 = 0 1,7, a= a2 = a) = 0 CE 1572, R., R., R. 1 (12) AIZ 23.  $- (-1-7) \begin{vmatrix} 1-7 & a-1 \\ -\alpha+1 & 2a-1-7 \end{vmatrix}$   $= (-1-7) \begin{vmatrix} a-7 & a-1 \\ a-7 & 2a-1-7 \end{vmatrix}$ = (-1-7)(A-7) | A-1 | 2a-1-7 20-1-2-0+1 = a-2 = (-(-7)(A-2)(A-7) (新重) A、1一=凡的動成图×A、

(i) まりのチェレベレラ、「没種支持国有人へんは2つ、 そのため、のチェーベとラナア南(也不)首ところ)。 (i) a= ( a & ?)  $\left(\begin{array}{ccc}
1 & 0 & 0 \\
0 & 1 & \alpha \\
0 & 2 & 7
\end{array}\right)$ ことときへ固有値はカュー(, (質解). 7=-[ x 1) / 2 / 5 / 10 W, 13  $\left(\begin{array}{cccc}
0 & 5 & 0 \\
0 & 5 & 0
\end{array}\right) \longrightarrow \left(\begin{array}{cccc}
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0 &$  $\Psi_{r} = \alpha \begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix} \qquad (\alpha \neq 0)$ はいかりにうなりょとりかりころ  $\left(\begin{array}{cccc}
0 & 0 & 0 \\
0 & 2 & -2
\end{array}\right) \longrightarrow \left(\begin{array}{cccc}
0 & 0 & 0 \\
0 & 0 & 0
\end{array}\right)$ 228  $W_{\varepsilon} = b \begin{pmatrix} 0 \\ 0 \end{pmatrix} + c \begin{pmatrix} 0 \\ 1 \end{pmatrix} \qquad (b,c) \neq (0,0)$ 1,71次维立加固有人分上几日  $\left(\begin{array}{c} 0 \\ 0 \\ 1 \end{array}\right), \left(\begin{array}{c} 0 \\ 0 \\ 0 \end{array}\right), \left(\begin{array}{c} 1 \\ 1 \\ 1 \end{array}\right)$ a37. ZaraArazi Bacgiz (%)  $\left(\begin{array}{cccc} 1 & -2 & 0 \\ 2 & -3 & 0 \\ 2 & 5 & 5 \end{array}\right)$ (新草())-=后即動用(图, 产30)-=a ひいいっな国のだろうら 2-330  $\Delta \mathcal{H} = \alpha \begin{pmatrix} 1 \\ 1 \\ 0 \end{pmatrix} + b \begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix}$ よって発われたる日本へろくには2つで、Aはなけるでそりらと は)か巻~知りたいがほかれたよのみ、いま(1:1)(1)

A = 1

(4)  $(1) f_A(\lambda) = |\lambda E - A|$ = | X+1 -1 3 | -9 X+2 -9 | -5 2 2-9 | = (2+1)(2+2)(2-7)-45-89+15X+30+18X+18-9X-68 = (xt1) (x2-5x-14) + 12 +24x = 28-8h-182+X-52-14-182+292 = x3-4x2+5x-2 1 -3 2 0 = (x-1)(x2-3x+2) = (x-1)(x-2)(x-1)  $= (\chi - 1)^2 (\chi - 2)$ 田有徳はずん(れ)=0をはとまのとないで、 x=((重解),2 (2) NZIでfa(n)は3段式aため、(x-1) \*\*\* とfa(n)で割。なとまる あまりは2次式となる、あとQ(x), ままりをP(x)=axi+b27C E 73 E  $(x-1)^{h+2} = \int_{A} (x) Q(x) + P(x)$ = (x-1) (x-2) Q(x) + ax + bx + C X=[3/代入】3] a+5+C=0 - (J) 2=22M273E 4a+2b+C=1 -0 また、(\*)で西と微かして2=1を代える( 5-7 ~ (3) 4a+b=0 3a+b=1 b=-2  $\begin{cases} a + b + c = 0 & -0 \\ 4a + 2b + c = 1 & -0 \\ 2a + b = 0 & -0 \end{cases}$ 2at6 20 C = / a = /

$$F(x) = x^{2} - 2x + 1$$

$$= (x - 1)^{n+2}$$

$$f(x) = f_{A}(x) Q(x) + (x - 1)^{n} - (x)^{n}$$

$$(x - 1)^{n+2} = f_{A}(x) Q(x) + (x - 1)^{n} - (x)^{n}$$

$$(x - 1)^{n+2} = f_{A}(x) Q(x) + (x - 1)^{n} - (x)^{n}$$

$$(x - 1)^{n+2} = f_{A}(x) Q(x) + (x - 1)^{n} - (x)^{n}$$

$$(x - 1)^{n+2} = f_{A}(x) Q(x) + (x - 1)^{n} - (x)^{n}$$

$$= (x - 1)^{n} - (x - 1)^{n} + (x - 1)$$

[6]

 $C = b \begin{pmatrix} -1 \\ 1 \end{pmatrix} \quad (b \neq 0)$ 

[e)

$$f(x) = f(x)$$
 $f(x) = f(x)$ 
 $f(x) = f(x)$ 

$$\int_{N\to\infty}^{\infty} A^{N} = \frac{1}{P+8} \left( A + (P+8-1)E \right) \quad \boxed{0} \quad [1-P-8] < 1$$

$$= \frac{1}{P+8} \left( \begin{array}{c} 2 & 8 \\ P & P \end{array} \right)$$

$$\lim_{n\to\infty} \left( \begin{array}{c} a_n \\ b_n \end{array} \right) = \lim_{n\to\infty} A^n \begin{pmatrix} a_n \\ b_n \end{array} \right)$$

$$= \frac{1}{p+2} \left( \begin{array}{c} 2a_0 + 8b_0 \\ pa_0 + pb_0 \end{array} \right)$$