DT (5.1) Gramer's Rule.

$$\frac{ZY}{36x + 7y = -1}$$

$$\frac{|axb|}{|axb|} = ad - bc$$

$$3 = \frac{|5|}{|6|}$$

$$2 = \frac{|5|}{|6|}$$

$$3 = \frac{|5|}{|6|}$$

$$D = |C_8| \qquad D_{x} = |I_8| \qquad D_{y} = |C_1|$$

$$= 40 - 42 \qquad = -151 \qquad = 1111$$

$$= -21 \qquad C - 8 - 7) \qquad 5 - (-6)$$

$$\times = \frac{D_x}{D} = \frac{-15}{2} = \frac{15}{2}$$

$$y = -\frac{11}{2}$$

50 km:  $(\frac{15}{2}, -\frac{11}{2})$ 

$$= -245$$

$$X = \frac{20}{-10} = -2$$

$$J = \frac{-16}{-10} = + \frac{3}{5}$$

$$Z = \frac{-24}{-10} = \frac{12}{5}$$

$$(-2, \frac{3}{5}, \frac{12}{5})$$

5.2 Partial Fraction. Decomposition.

$$\frac{E_X}{X^2-5X+6} = \frac{A}{x-2} + \frac{B}{x-3}$$

5011

$$\frac{\chi}{\sqrt{2-5\pi/4}} = \frac{A(x-3) + B(x-2)}{(x-2)(x-3)}$$

$$\times = A(x-3) + B(x-2)$$

$$\times A + B = 1$$

$$D = (-3 - 2)$$

$$D_{A} = \begin{vmatrix} 1 & 1 \\ 0 & -2 \end{vmatrix} = -2 \begin{vmatrix} 1 & 1 \\ -3 & 3 \end{vmatrix}$$

$$D_{B} = \begin{vmatrix} 1 & 1 \\ -3 & 3 \end{vmatrix} = -2 \begin{vmatrix} 3 & 3 \\ 2 & -3 \end{vmatrix}$$

$$\frac{x}{x^{2} - 5x4} = \frac{-2}{x - 3} + \frac{3}{x - 3}$$

$$\frac{x}{-3A - 3A = 0}$$

$$B = 3$$

$$A = 1 - 3$$

$$= -21$$

$$\frac{(x-a)^{2}}{(x-a)^{2}} = \frac{1}{(x-a)^{2}} + \frac{1}{(x-a)^{2}}$$

$$\frac{x+2}{x^{2}-2x^{2}+x} = x + \frac{x^{2}-2x+1}{x^{2}-2x+1}$$

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

$$\frac{x+2}{x^{3}-2x^{2}+x} = \frac{x}{x} + \frac{x}{(x-1)^{2}}$$

$$\frac{x+2}{x^{3}-2x^{2}+x} = \frac{x}{x} + \frac{x}{(x-1)^{2}}$$

$$\frac{X+2}{X^2} = A(x^2 - 2x + 1) + 13x(x - 1) + 0$$

$$\frac{X^2}{X^2} = A + 3 = 0 \Rightarrow \Delta = -2$$

$$\frac{X^2}{X^2} - 2A - 3 + C = 1 \Rightarrow C = 1 + 4 - 2$$

$$\frac{X^2}{X^2} = 2$$

$$\frac{A}{X^2} = 2$$

$$\frac{X+2}{X^2 - 2x^2 + x} = \frac{2}{X} - \frac{2}{X-1} + \frac{3}{(x-1)^2}$$

$$\frac{EX}{X^{2}(x-1)^{3}} = \frac{A}{X^{4}} + \frac{A}{X^{4}} + \frac{C}{X^{-1}} + \frac{D}{(x-1)^{2}} + \frac{E}{(x-1)^{3}}$$

$$X^{2}(x-1)^{3} + B(x-1)^{3} + CX^{2}(x-1)^{3}$$

$$X^{2}(x-1) + EX^{2}$$

$$+ D X^{2}(x-1) + EX^{2}$$

$$= AX$$

$$(a-b)^{3} = a^{3}b^{3}a^{2}b^{4}3a^{1}b^{2} + 1a^{6}b^{3}$$

$$= a^{3} - 3a^{2}b + 3a^{5}b^{2} - ba^{3}$$

$$X^{3} - S = AX(X^{3} - JX^{3} + 3X - 1) + B(X^{2} - 3X^{2} + 3X - 1)$$

$$+ CX^{2}(X^{2} - 2X + 1) + DX^{3} - DX^{2} + tX^{3}$$

$$X^{4} - A + C = 0 - C - C - 24$$

$$X^{3} - 3A + B - 2C + D = 1$$