Pre-Cal 9/2

From ex's Rule.

Ex
$$|5x + 7y| = -1$$
 $|6x + 8y| = 1$
 $|ab| = ad - bc$
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$$= -245$$

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

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

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

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

5.2 Partial Fraction. Decomposition.

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

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$$\frac{\chi}{x^{2}-574} = \frac{A(x-3)+B(x-2)}{(x-2)(x-3)}$$

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

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

$$D_{B} = \begin{vmatrix} 1 & 1 \\ -3 & 3 \end{vmatrix} = -2 \begin{vmatrix} 3 & 3 \\ 2 & -5 \end{vmatrix}$$

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

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

$$B = 3$$

$$A = 1 - 3$$

$$= -21$$

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

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

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

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

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

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

$$x^1 - 2A - B + C = 1 \Rightarrow C = 1 + 4 - 2$$

$$x^0 = 3$$

$$x^0 = 3$$

$$C = 1 + 2A + 3$$

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