Fartial Frackin

$$G(x) = (x-x_1)(x-x_2) - ... (x-x_n)$$

$$\frac{P}{Q} = \frac{A_1}{x-x_1} + \frac{A_2}{x-x_2} + ... + \frac{A_n}{x-x_n}$$

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

$$Q: (x-a)^{7}$$

$$\frac{\partial}{\partial x} = \frac{1}{x-a} \frac{\partial}{\partial x} + \frac{\partial$$

$$\frac{x^{2}-6}{x^{2}(x-1)^{2}} = \frac{1}{x} + \frac{1}{x^{2}} + \frac{1}{x-1} + \frac{1}{(x-1)^{2}} + \frac{1}{(x-1)^{3}}$$

$$x^{2}-6 = Ax(x^{2}-3x^{2}+3x-1) + B(x^{2}-3x^{2}+3x-1) + C(x^{2}-3x^{2}+3x-1) + C(x^{2}-2x+1) + D(x^{2}-3x^{2}+3x-1) + C(x^{2}-3x^{2}+3x-1) + C(x^{2}-3x^{$$

$$\frac{\chi^{2}f}{x^{2}(x-1)^{2}} = \frac{24}{x} + \frac{8}{x^{2}} - \frac{24}{x-1} + \frac{12}{(x-1)^{2}} - \frac{2}{(x-1)^{2}}$$

$$\frac{3x-5}{x^{3}-1} = \frac{-\lambda/3}{x-1} + \frac{\frac{2}{3}x+\frac{12}{3}}{x^{2}+x+1}$$

$$= -\frac{2}{3}\frac{1}{x-1} + \frac{1}{3}\frac{2x+13}{x^{2}+x+1}$$

$$\frac{\mathcal{E}_{X}}{(x^{2}+4)^{2}} = \frac{Ax \neq A}{x^{2}+4} + \frac{Cx+D}{(x^{2}+4)^{2}}$$

$$x^{3}+x^{2} = (Ax+B)(x^{2}+4) + (Cx+D)$$

$$x^{3} = A = 1$$

$$x^{2} = B = 1$$

$$x^{2} = A = 1$$

$$x^{3} + A = 1$$

$$x^{2} = A = 1$$

$$x^{2} = A = 1$$

$$x^{3} + A = 1$$

$$x^{2} = A = 1$$

$$x^{2} = Ax \neq A = 1$$

$$x^{3} + A = 1$$

$$x^{2} = Ax \neq A = 1$$

$$#5.2-1 \frac{4}{x(x-1)} = \frac{A}{x} + \frac{B}{x-1}$$

$$X' A + 3 = 0 \Rightarrow B = 4$$

 $X^0 - A = 4 \Rightarrow A = -4$

$$\frac{\mathcal{U}}{X(X-1)} = \frac{-\mathcal{U}}{X} + \frac{\mathcal{U}}{X-1}$$

#18.
$$\frac{4}{2x^{2}-5x+3} = \frac{1}{x-1} + \frac{1}{2x-3}$$

$$4 = A(2x-3) + B(x-1)$$

$$1 = 2A + B = 0$$

$$1 = -3A - B = 4$$

$$-A = 4 \implies A = -4$$

$$1 = -2(-4) = 8$$

$$1 = -2(-4) = 8$$

$$\frac{\Delta}{2x^{2}-5x+3} = \frac{-4}{x-1} + \frac{\$}{2x-3}$$

Sec. 5.3 Ellipse
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

ifa=b= x2, y2 a2

$$\frac{(5)}{(5)} \frac{2x^2 + 9y^2 = 15}{15}$$

$$\frac{x^2 + 9y^2 = 1}{15}$$

Minor
$$M(0,b)$$

For $C = 1/8-3$
 $V' = (-a,0)$
 $C = 1/8-3$
 $C = 1/8$

$$\frac{7 \times 7}{35} + \frac{7}{4} = 25$$

$$\frac{25}{9} + \frac{5^{2}}{45} = 1$$

$$4 > 4$$

$$4^{2} = \frac{35}{4} \Rightarrow 0 = 1 \le \frac{5}{3}$$

$$1 = \frac{25}{36} = \frac{1}{4} = 1$$

$$1 = \frac{25}{36} = \frac{1}{4} = 1$$

$$1 = \frac{125}{36} = \frac{1}{4} = 1$$

$$1 = \frac{125}{36} = \frac{1}{4} = 1$$

$$1 = \frac{125}{36} = \frac{1}{4} = 1$$

$$1 = \frac{10^{2}}{36} = \frac{1}{4} = 1$$

$$1 = \frac{10^{2}}{36} = \frac{10$$

$$w=8, h=7$$

$$\frac{x^{2}}{15^{2}} + \frac{y^{2}}{10^{2}} = 1$$

$$\frac{y^{2}}{10^{2}} = 1 - \frac{x^{2}}{15^{2}}$$

$$= \frac{15^{2} - x^{2}}{15^{2}} (15^{2} - 11^{2})$$

$$= (\frac{10}{15})^{2} (209)$$

clear

15 =