5.2 Partial Frachin

(1)
$$G(x) = (x-x_1)(x-x_2) - ... (x-x_n)$$
 $\frac{P}{Q} = \frac{A_1}{x-x_1} + \frac{A_2}{x-x_2} + ... + \frac{A_n}{x-x_n}$
 $\frac{X}{x^2-5x+6} = \frac{A}{x-2} + \frac{A}{x-3}$
 $\frac{X}{x^2-5x+6} = \frac{A}{x-2} + \frac{A}{x-3} = \frac{A}{x-3}$
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$$\begin{array}{r}
3A+3S=3 \\
-3A-2S=0 \\
\hline
-3S=3 \\
\end{array}$$

$$A = 1-3=-2$$

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

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

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

#1

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

$$\frac{(x^{2}+u)^{2}}{(x^{2}+u)^{2}} = \frac{Ax+A}{x^{2}+u} + \frac{Cx+D}{(x^{2}+u)^{2}}$$

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

$$x^{3} = \frac{A}{x^{2}} = \frac{1}{x^{2}}$$

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

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

rate or the section

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

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

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

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

$$1 = -2A + B = 4$$

$$1 = -2A + B = 4$$

$$1 = -2A + B = 4$$

$$2x^{2}-5x+3 = -4$$

$$2x^{2}-5x+3 = -4$$

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

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

$$\frac{(5)}{(5)} = \frac{2}{15} \times \frac{2}{15} + \frac{9}{15} = \frac{15}{15}$$

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

Minor
$$M(0,b)$$
 $F' = (-a,0)$
 $G(0,b)$
 $G(0,b)$
 $G(0,b)$

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

$$\frac{25}{9} + \frac{3}{25} = 2$$

$$4 > 4$$

$$4^{2} = \frac{35}{9} \rightarrow 0 = \pm \frac{5}{3}$$

$$c^{2} = \frac{35}{9} \rightarrow 0 = \pm \frac{5}{3}$$

$$c^{3} = \frac{35}{9} \rightarrow 0 = \pm \frac{5}{3}$$

$$c^{4} = \frac{35}{9} \rightarrow 0 = \pm \frac{5}{3}$$

$$c^{2} = \frac{35}{9} \rightarrow 0 = \pm \frac{5}{3}$$

$$c^{3} = \frac{35}{9} \rightarrow 0 = \pm \frac{5}{3}$$

$$c^{4} = \frac{35}{9} \rightarrow 0 = \pm \frac{5}{3}$$

$$c^{4} = \frac{375}{9} \rightarrow 0 = \pm \frac{5}{3}$$

$$c^{5} = \frac{375}{4} \rightarrow 0 = \pm \frac{5}{3}$$

$$c^{5} = \frac{5}{4} \rightarrow 0 = \pm \frac{5}{4}$$

$$c^{$$

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

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

$$= \frac{15^{2} - x^{2}}{15^{2}}$$

$$= \frac{10^{2}}{15^{2}} \left(15^{2} - 11^{2}\right)$$

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

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

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

441 < 836