$$Q) \int \frac{x^2 - 2 + 6}{2^3 + 32} dx$$

$$= \int \frac{\chi^2 - \chi + 6}{\chi(\chi^2 + 3)} d\chi$$

Partiel fraction decongostros is:

$$+6 = 3A + 0$$

$$A=2$$

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

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

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

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

6) (- dx W2 /42 H). 62 LA1 u=1242 . 2= 4-1 du 2 du 14x+17 [72] .u. .du. 1/42H = (Ly du. 1424. 2 du

Penhal Genetions:

4 = Alum) +B(u-1)

2 2ln [J4241] -1 | -2 ln [J424] +1/ +C