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$$\frac{4}{2+i} + i \frac{\pi}{(-2+3i)} \left[\frac{(2-i)}{(2-i)} \right]$$

$$\frac{(3-i)+i^{2}(-2+3i)(2+i)(2-i)}{5}$$

$$\frac{(3-i)(2-i)=6-3i-2i+i^{2}=55i}{2!(i^{2}(-2+3i)(2+i))(2-i)=-8i^{2}+2i^{2}+2i^{2}-3i^{2}}$$

$$5-6i-8i^{2}+2i^{2}+2i^{2}-3i^{2}=\frac{20+5i}{5}=9+i$$

$$05-6i-8i^{2}+2i^{2}+2i^{2}-3i^{2}=\frac{20+5i}{5}=9+i$$

$$2 = \frac{1}{1} (8 - 4i) = \frac{1}{2} = 0$$

$$a = 2 \quad b = \frac{5}{4}, \quad c = -5i$$

$$0 = \frac{1}{2} - \frac{1}{4} ac = \frac{1}{2} (\frac{5}{4}i)^{2} - \frac{1}{4} \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{2} - \frac{1}{4} \cdot \frac{$$

(95 bej: Z1=-0,5+1 Z2=-2+i

x4+ n3-n2+x-2=(n2+an +6/(n2+card) 2"+713-237 ny +n3-n2+n-2= n4+(4+c)n3+(6+d+ac)n2 + (90+60) 4+61 a+6=1 0=1 c = 0 h+d+ac=1 B+d=-1 d = 1 ud + 6c =+1 B=-2 Bd=-2 az1 C=0 d=1 B=-2 Ofler: (x2+1x+2)(x2+1)=(x-1)(x+2)(x2+1)

5) n3+6n+1

 $\frac{n^{3} + 6n^{2} + 1}{n^{3} + 2n} = \frac{n^{2} + 2}{n + 6}$ $\frac{6n^{2} - 2n + 1}{6n^{2} + 12}$ $\frac{-2n - 1}{n + 1}$

yen: n+6

OGUION -2n-11

6) $\frac{2\pi^2-4}{n^3-4n} = \frac{A}{n^3} + \frac{B}{n^2} + \frac{C}{n} + \frac{D}{n} = \frac{Ax^2x+Bxx+Cn+Dn^3}{x^3-4n} = \frac{A}{n^3-4n} + \frac{B}{n^3-4n} + \frac{B}{n^3-4n} + \frac{C}{n^3-4n} + \frac{C}{n^3-4n$

$$2n^{2}-4z An^{2}n + Bnn + Cn + Dn^{3}$$

$$2n^{3}A+b=0$$

$$n^{2}Bz 2$$

$$\frac{2\pi^{2}-4}{\pi^{3}-4\pi} = \frac{0}{\pi} + \frac{2}{\pi^{2}} + \frac{0}{\pi^{3}} + \frac{0}{\pi}$$