

Typo in #6

$$a = 3 + 4i$$

$$b = -7 + 5i$$

$$\begin{aligned} & -3x^6 + 7x^5 - x^4 + 36x^3 \\ & \quad + 3x^2 + 16x - 40 \end{aligned}$$

$$f(x) = x^3 - 2x^2 + x + 3$$

Divide by $x^2 - x - 2 = (x-2)(x+1)$

↓

$$r(x) = 2x + 1$$

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x	f	r
-2	-15	-3
-1	-1	-1
0	3	1
1	3	3
2	5	5