$$3x^5 - 2x^3 + 4x^2 + x - 6 \quad \Big| \quad 2x^3 - 1$$

$$-3x^5 \qquad + \frac{3}{2}x^2 \quad \Big| \quad \frac{3}{2}x^2 - 1$$

$$// \quad -2x^3 + \frac{11}{2}x^2 + x - 6$$

$$2x^3 \qquad - 1$$

$$// \quad \frac{11}{2}x^2 + x - 7$$

$a5 + b2 = 1$ $\quad a = 1 \quad b = -2$

$5 = 2 \cdot 2 + 1$

$1 = 5 + 2(-2)$

$a+b\sqrt{-1}$ a, b reals

(a,b) pairs

$$x^4 - x^3 + x^2 - x + 1 \quad \Big| \; x^2 + x + 1$$

$$-x^4 - x^3 - x^2 \quad \Big| \; x^2 - 2x$$

$$-2x^3 - x + 1$$

$x^4 - x^3 + x^2 - x + 1$ nu e divizibil pe $x^2 + x + 1$