Nejvetsi spol. délitel poly nomu

$$f = x^5 + x + 1$$

 $g = 2x^4 + x^3 + 2x^2 + 1$

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

$$-\left(-\frac{1}{2}x^{2}-\frac{1}{3}x^{2}-\frac{1}{5}x^{2}-\frac{1}{5}\right)$$

$$\frac{\left(2x^{3}+x^{3}+2x^{2}+1\right)=\left(-\frac{3}{5}x^{3}+\frac{1}{2}x^{2}+\frac{1}{5}x+\frac{5}{5}\right)-\left(-\frac{4}{3}x^{2}-\frac{24}{9}\right)+\left(x^{2}+x+1\right)-\frac{11}{9}}{9}$$

$$-\left(2x^{\frac{5}{3}}x^{\frac{5}{3}}x^{\frac{2}{3}}x^{\frac{2}{3}}x^{\frac{70}{3}}x\right)$$

$$-\left(-\frac{3}{5}x^{3}-\frac{3}{5}x^{2}-\frac{3}{5}x\right)$$

$$NSD(f,g) = (x^2 + x + 1)$$

$$f = 9 \cdot (\frac{1}{2}x - \frac{1}{3}) + 9$$

 $g = 9 \cdot (-\frac{1}{3}x - \frac{24}{5}) + 0$

$$d = g + k \cdot \left(\frac{2}{3}x + \frac{28}{9}\right) =$$

$$= g + k \cdot \left(f - g\left(\frac{1}{2}x - \frac{1}{4}\right)\right)\left(\frac{2}{3}x + \frac{29}{9}\right) \ge$$

$$= g + f\left(\frac{4}{3}x + \frac{29}{9}\right) - g\left(\frac{1}{2}x - \frac{1}{4}\right)\left(\frac{2}{3}x + \frac{29}{9}\right) =$$

$$= f\left(\frac{2}{3}x + \frac{29}{9}\right) + g\left(1 - \left(\frac{1}{2}x - \frac{1}{4}\right) \cdot \left(\frac{4}{3}x + \frac{29}{9}\right) \ge$$

$$= f\left(\frac{2}{3}x + \frac{28}{9}\right) + g\left(1 - \left(\frac{1}{2}x - \frac{1}{4}\right) \cdot \left(\frac{4}{3}x + \frac{29}{9}\right) \ge$$

$$= f\left(\frac{2}{3}x + \frac{28}{9}\right) + g\left(-\frac{4}{3}x^2 - \frac{4}{9}x + \frac{16}{9}\right) \ge$$

$$= \frac{46}{9}\left(x^2 + x + 1\right) = d$$

$$(x^2 + x + 1) = f \cdot (\frac{6}{11}x + \frac{4}{11}) + g \cdot (-\frac{3}{11}x^2 - \frac{3}{11}x + \frac{4}{11})$$

(MAT 05)

(3)

Hornevovo sche'ma

najdéte celociselné Loveny Poly voma

Plasen => P/2

P E { ± 1, ±2}