HW2
15.07.027 27.18

(1) $X^{4} - 3x^{3} - 7x^{2} + 27x - 18$ 1, 3

(2) $\frac{1}{3} - \frac{3}{4} - \frac{3}{4} - \frac{7}{4} + \frac{27}{4} - \frac{18}{4} + \frac{18}{4} = \frac{1}{4} - \frac{1}{4}$

x 2 + X - 6 = 0

D=1-4.1.(-6)=

-12,0625 8,1845 6,625

3
$$(7x^3 - 7x^2 + 4x + 6)(-7x^3 + 4x^2 - 2x + 3)$$

 $7x^3(-7x^3) + 7x^3 + 4x^2 + 7x^3(-2x) + 7x^3 \cdot 3 = -49x^6 + 28x^5 - 14x^4 + 21x^3$
 $-7x^2(-7x^3) - 7x^2(4x^2) - 7x^2(-2x) - 4x^2 \cdot 3 = 49x^5 - 28x^6 + 14x^3 - 21x^2$
 $4x(-7x^3) + 4x(4x^2) + 4x(-2x) + 4x \cdot 3 = -28x^4 + 16x^3 - 8x^2 + 12x$
 $8(-7x^3) + 6 - 4x^2 + 6(-2x) + 6 \cdot 3 = -42x^3 + 24x^2 - 12x + 18$

-49x⁶+47x⁵-40x⁴+9x³-5x²+18

$$\frac{9}{40} + \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{4} \times \frac{$$

 $\begin{array}{l} \times (X + 2)(X - 2)(X + 1) = \\ = (X^{2} + 2 \times)(X - 2)(X + 1) = (X^{3} - 2 \times^{2} + 2 \times^{2} - 4 \times)(X + 1) = \\ = X^{4} - 2 \times^{3} + 2 \times^{3} - 4 \times^{2} + 2 \times^{3} - 2 \times^{2} + 2 \times^{2} - 4 \times = \\ = X^{4} + X^{3} - 4 \times^{2} - 4 \times = \\ \end{array}$