Name:	
Mama:	
Name	

Date:

## Class worksheet: Alg2H Rational expressions: Divide (Synthetic)

(book chapter 6)

Long	Synthetic
$\frac{2 + ^{2} + 3 + 4}{2 \times ^{3} - 7 \times ^{2} - 11 \times ^{-2} 0}$ $\frac{2 \times ^{3} - 10 \times ^{2}}{3 \times ^{2} - 11 \times ^{3}}$ $\frac{3 \times ^{2} - 11 \times ^{3}}{3 \times ^{2} - 15 \times ^{3}}$ $\frac{4 \times ^{-2} \times ^{3}}{4 \times ^{-2} \times ^{3}}$	only For $\frac{1}{2}(x+a)$ we take $-a$ $5   2 - 7 - 11 - 10$ $15   20$ $2   3   4   0$ $2   7 + 3x + 4$ Vernainda

(W/ remainder)
$$(4x^{3} + x + 7) + (x-2)$$

$$(4x^{3} + x + 7) + (x-2)$$

$$(x-2)$$

$$\frac{2x^3 + 5x^2 + 5x + 6}{x + 2} = ?$$

$$\frac{2x^4 - 30x^2 - 2x - 1}{x - 4} = ?$$

2x2+x+3

$$(x^5 + x^4 + x^3 + x^2 + x + 1) \div (x + 1) = ?$$