

Dividing Polynomials Using Long Division

Name _____

Date _____ Period _____

Long Division

$$\begin{array}{r} 127 \\ 5 \overline{) 637} \end{array}$$

$$\begin{array}{r} 637 \\ \hline 5 \end{array}$$

$$\text{Divisor} \times \text{Quotient} + \text{Remainder} = \text{Dividend}$$

Long Division

$$(x^2 + 5x + 4) \div (x + 2)$$

Long Division

$$(3x + 2x^2 - 5) \div (x - 2)$$

Long Division

$$(x^3 - 5x^2 + 2x + 8) \div (x - 4)$$

Long Division

$$(x^3 + 8x^2 - 64) \div (6 + x)$$