## CHAPTER 12: RATIONAL EXPRESSIONS

12.4: Dividing Polynomials

## OBJECTIVES

- I can divide polynomial by a monomial
$\square$ I can divide a polynomial using long division


## PRRT 2: LONG DIVIISION

The process of dividing a polynomial by a binomial is similar to long division. For example, consider dividing 737 by 21 .

## PART 2: LONG DIVISION

(2) Divide
a. $\left(2 b^{2}-b-3\right) \div(b+1)$

## PART 2: LONG DIVISION

$\left(c^{3}-4 c+12\right) \div(c+3)$

## CAN YOU?? PROVE IT!!

- I can divide polynomial by a monomial
- I can divide a polynomial using long division

2. $\left(12 x^{8}-8 x^{3}\right) \div 4 x^{4} \quad$ 14. $\left(2 w^{3}+3 w-15\right) \div(w-1)$
