





Long division is a great way to divide polynomials. However, there is a simpler way  
that removes all the variables and just works with the coefficients; Synthetic Division:  
Synthetic Division: 
$$(5x^3 - 13x^2 + 10x - 9) \div (x - 2)$$
.  
Fractor:  $x - 2$   
 $x - 2 = 0$   
Rat:  $(x - 2)$   
 $x - 2 = 0$   
 $x - 2 = 0$   
 $x - 2 = 0$   
Rat:  $(x - 2)$   
 $y = 0$   
 $x - 2 = 0$   
 $x - 2$ 











