## $n^{\text {th }}$ Derivative using Partial fractions

For finding $r^{\text {th }}$ derivative of fractional expressions whose numerator and denominator are rational algebraic expression, firstly we resolve them into partial fractions and then we find $n^{\text {th }}$ derivative by using the formula giving the $n^{\text {th }}$ derivative of $\frac{1}{a x+b}$.

