Example 1: 
$$F(s) = \frac{4}{(s+1)(s+3)}$$

$$\frac{1}{(S+1)(S+3)} = \frac{A}{S+1} + \frac{B}{S+3}$$

$$\frac{3}{(S+1)(S+3)} = \frac{AS+3A+BS+B}{(S+1)(S+3)}$$

$$\Psi = As + Bs + 3A + B$$

$$S(A+B) = 0$$

$$3A+B = \Psi$$

$$\begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \\ -A = B \end{array} \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \\ B = -\lambda \end{array}$$

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$$\frac{A}{S+1} + \frac{B}{S+3} = \frac{2}{S+1} - \frac{2}{S+3}$$

$$3A + B = 4$$
  
 $3A - A = 4$   
 $2A = 4$   
 $A = 2$