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proposed ... MODIFIED ADOMIAN

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SINGULAR INITIAL ... The Adomian

decomposition method (ADM) is a

systematic approximation method

for solving ordinary and partial

nonlinear differential equations. The

method is based on the assumption

that the solution can be

represented by infinite series $y(x) =$

$\sum_{n \geq 0} u_n(x)$. MATLAB TUTORIAL for

the First Course: Adomian

Decomposition The first step is to

factor the denominator as much as

possible and get the form of the

partial fraction decomposition.

Doing this gives, $\frac{3x + 11}{(x - 3)(x + 2)} =$

$\frac{A}{x - 3} + \frac{B}{x + 2}$ $\frac{3x + 11}{(x - 3)(x + 2)} = \frac{A}{x - 3} + \frac{B}{x + 2}$

$\frac{3x + 11}{(x - 3)(x + 2)} = \frac{A}{x - 3} + \frac{B}{x + 2}$

2. The next step is to actually add

the right side back up. Calculus II -

Partial Fractions Here is a set of

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