

Guessing the correct trial functions

Differential eqn: $y'' - 3y' + 2y = f(t)$ (auxiliary roots 1, 2)

$f(t)$	Guess for $y_p(t)$
$4t^2 - 2$	
$\sin(t) + 2\cos(t)$	
$\cos(2t) - \sin(t)$	
$12e^{3t}$	
$2e^t$	
$4t^2e^t$	
$e^t \sin(t)$	
$e^t + \sin(t)$	

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