Arswe h

To sot up the linear combination with underwined coefficients, we look at the right side of the given nonhonogenous differential equation: x3+x+e2x

we can try three undetermined coefficients:

One for the highest degree term x3, we will call that constant & : k, x3
" " x term , " " " , k2: k2x.

" " constant " , " " " 123: kg e-2x

So the linear combination with undetermined coefficients is:

y = k1 x3 + k2 x + k3 e-2x

+ (where &, , &, and &, are undetermined coefficients to be found)

As a result, the linear combination of funtions with undermined literal coefficients for this equation is;

y= k1 x3 + k2 x + k3 e-2x