

Method of undetermined coefficients or “judicious guessing”

Find the general solution of $y'' - 5y' + 6y = g(t)$ for each of the following nonhomogeneous terms.

1. $g(t) = 7e^{4t}$

2. $g(t) = 7e^{3t}$

3. $g(t) = 4e^{2t} \cos 5t$

4. $g(t) = t^2$

5. $g(t) = 3t^2 e^{6t}$

6. $g(t) = 2e^{5t} + e^{4t}$