

NAME:

Home Work 8.
MAP 2302 - Differential Equations

Find a linear homogeneous DE with real constant coefficients that has a particular solution given by:

1. $y = 7e^{3x} + 2x$

2. $y = 6 + 3xe^x - \cos x$

3. $y = 4xe^x \sin(2x)$

4. $y = \cos^2 x$