

Guess a possible non-homog soln for the following DEs:

1a.) $y'' - 4y' - 9y = 4\cos(3t)$

Guess: _____

1b.) $y'' - 9y = 4\cos(3t)$

Guess: _____

since no y' term, do not need _____ term as no _____ will appear on LHS when plug in guess.

1c.) $y'' - 9y' = 4\cos(3t)$

Guess: _____

1d.) $y'' + 9y = 4\cos(9t)$

Guess: _____

1e.) $y'' + 9y = 4\cos(3t)$

Guess: _____

$$2a.) \quad y'' + 9y = 4\cos(9t) + t$$

Guess: _____

$$2b.) \quad y'' + 9y = 4\cos(3t) + t$$

Guess: _____

$$2c.) \quad y'' + 9y = 4t\cos(9t)$$

Guess: _____

Alternatively, plus in wrong guess and see what is missing.

$$2d.) \quad y'' + 9y = 4t\cos(3t)$$

Guess: _____