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

   Guess: ________________________________

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

   Guess: ________________________________

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

   Guess: ________________________________

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

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

   Guess: ________________________________