

Section 31.7/31.8:

Tuesday, February 21, 2017 2:43 PM

Solutions to 2nd order Linear OEs

linear differential equations of 2nd order:

$$a_0 y'' + a_1 y' + a_2 y = b$$

where $a_0, a_1, a_2,$ and b are either
constants or functions of x

note: if $b=0$ (right-hand side)

we say DE is homogeneous

good news: we'll only consider cases where
the a 's are constant

$$y'' + 3y' - 4y = \sin x$$