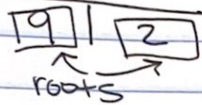


Webwork Second Order Eq'ns Constant Coeff. Homog. Basic  
Problem 1

$$y'' - 11y' + 18y = 0$$

$$\text{char poly: } r^2 - 11r + 18 = 0$$

$$(r-9)(r-2)$$



CASE 1  $r_1 \neq r_2$

$$\therefore y_1 = e^{9x}$$

$$y_2 = e^{2x}$$

$$\text{General sol'n: } y = c_1 e^{9x} + c_2 e^{2x}$$