

4.2 Homogeneous Linear Equations: The General Solutions

Name:

Date: June 4, 2013

P 1. Find a general solution to

$$y'' + 6y' + 9y = 0$$

P 3. Find a general solution to

$$y'' - y' - 2y = 0$$

P 4. Find a general solution to

$$y'' + 5y' + 6y = 0$$

P 13. Solve

$$y'' + 2y' - 8y = 0,$$

given that $y(0) = 3$ and $y'(0) = -12$.

P 17. Solve

$$z'' - 2z' - 2z = 0,$$

given that $z(0) = 0$ and $z'(0) = 3$.