

1. $y'' + 5y' + 4y = t^2 + 3t$ Forced? y n System damping: _____

Response has transient part? y n steady-state part? y n

Form of response (solution): _____

2. $y'' + 5y' + 4y = 0$ Forced? y n System damping: _____

Response has transient part? y n steady-state part? y n

Form of response (solution): _____

3. $y'' + 4y = 5 \cos 5t$ Forced? y n System damping: _____

Response has transient part? y n steady-state part? y n

Form of response (solution): _____

4. $y'' + 2y' + 5y = \sin t$ Forced? y n System damping: _____

Response has transient part? y n steady-state part? y n

Form of response (solution): _____

5. $y'' + 4y' + 9y = 0$ Forced? y n System damping: _____

Response has transient part? y n steady-state part? y n

Form of response (solution): _____

6. $y'' + 9y = 0$ Forced? y n System damping: _____

Response has transient part? y n steady-state part? y n

Form of response (solution): _____

There are more on the back!

7. $y'' + 6y' + 9y = 4 \sin 3t$ Forced? y n System damping: _____

Response has transient part? y n steady-state part? y n

Form of response (solution): _____

8. $y'' + 4y' + 5y = 4e^{-3t}$ Forced? y n System damping: _____

Response has transient part? y n steady-state part? y n

Form of response (solution): _____

9. $y'' + y = 6$ Forced? y n System damping: _____

Response has transient part? y n steady-state part? y n

Form of response (solution): _____