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Disciplina: <i>Cálculo IV</i>				Turma:
Professor: <i>Milton e Pericles e Rebello</i>				Data: <i>set / 2013</i>
Aluno (a):				

Gabarito da LISTA 4 de Cálculo IV
Exercícios: EDOs de Ordem Superior (Lineares homogêneas)

1. $y = c_1 + c_2 e^{-\frac{x}{4}}$
2. $y = c_1 e^{-6x} + c_2 e^{6x}$
3. $y = c_1 \cos 3x + c_2 \sin 3x$
4. $y = c_1 e^{3x} + c_2 e^{-2x}$
5. $y = c_1 e^{-4x} + c_2 x e^{-4x}$
6. $y = c_1 e^{\frac{2x}{3}} + c_2 e^{-\frac{x}{4}}$
7. $y = e^{2x} (c_1 \cos x + c_2 \sin x)$
8. $y = e^{-\frac{x}{3}} \left(c_1 \cos \frac{\sqrt{2}}{3} x + c_2 \sin \frac{\sqrt{2}}{3} x \right)$
9. $y = c_1 + c_2 e^{-x} + c_3 e^{5x}$
10. $y = c_1 e^x + e^{-\frac{x}{2}} \left(c_2 \cos \frac{\sqrt{3}}{2} x + c_3 \sin \frac{\sqrt{3}}{2} x \right)$
11. $y = c_1 e^x + e^{-x} (c_2 \cos x + c_3 \sin x)$
12. $y = c_1 e^{-x} + c_2 x e^{-x} + c_3 x^2 e^{-x}$
13. $y = c_1 + c_2 x + e^{-\frac{x}{2}} \left(c_3 \cos \frac{\sqrt{3}}{2} x + c_4 \sin \frac{\sqrt{3}}{2} x \right)$
14. $y = c_1 \cos \frac{\sqrt{3}}{2} x + c_2 \sin \frac{\sqrt{3}}{2} x + c_3 x \cos \frac{\sqrt{3}}{2} x + c_4 x \sin \frac{\sqrt{3}}{2} x$
15. $y = c_1 + c_2 e^{-2x} + c_3 e^{2x} + c_4 \cos 2x + c_5 \sin 2x$
16. $y = c_1 e^x + c_2 x e^x + c_3 e^{-x} + c_4 x e^{-x} + c_5 e^{-5x}$
17. $y = 2 \cos 4x - \frac{1}{2} \sin 4x$
18. $y = -\frac{3}{4} e^{-5x} + \frac{3}{4} e^{-x}$
19. $y = -e^{\frac{x}{2}} \cos \frac{x}{2} + e^{\frac{x}{2}} \sin \frac{x}{2}$
20. $y = 0$
21. $y = e^{2(x-1)} - e^{x-1}$
22. $y = 3 + \frac{1}{3} e^x - \frac{1}{3} e^{-2x}$
23. $y = e^{5x} - x e^{5x}$
24. $y = -2 \cos x$