

I prova parziale di Fisica Generale L-A
Corsi di laurea in Ingegneria Aerospaziale e Meccanica
 II Facoltà di Ingegneria, sede di Forlì
Prof. D. Galli
 7 febbraio 2003
Soluzioni

		Esercizio									
		1.1	1.2	2.1	2.2	3.1	3.2	4	5.1	5.2	6
compito	1	$\sqrt{13}$	$\sqrt{\frac{3}{52}}$	t^2	$\frac{t^3}{3}$	4	$8t^2$	$0.392t^2\hat{i} + (1.961t^2 - 2)\hat{j}$	$-4.9[\ln(1 - 0.5x)]^2 + 1000$	4.082×10^{-1}	0.402
	2	$\sqrt{10}$	$\sqrt{\frac{1}{10}}$	$\frac{t^2}{2}$	$\frac{t^3}{6}$	6	$18t^2$	$0.493t^2\hat{i} + (2.959t^2 + 1)\hat{j}$	$-5.444 \times 10^{-1} [\ln(1 - x)]^2 + 2000$	9.184×10^{-1}	0.705
	3	$\sqrt{19}$	$\sqrt{\frac{27}{76}}$	$\frac{2}{3}t^3$	$\frac{t^4}{6}$	$12t$	$36t^4$	$0.196t^2\hat{i} + (0.98t^2 + 5)\hat{j}$	$-1.96 \times 10^{-1} [\ln(1 - 1.25x)]^2 + 2000$	1.633	1.695
	4	$2\sqrt{5}$	$\sqrt{\frac{4}{5}}$	$\frac{t^3}{3}$	$\frac{t^4}{12}$	$18t$	$81t^4$	$1.213t^2\hat{i} + (4.851t^2 - 1)\hat{j}$	$-3.063 \times 10^{-1} [\ln(1 - 2.667x)]^2 + 1000$	2.296×10^{-1}	0.743
	5	$\sqrt{7}$	$\sqrt{\frac{27}{28}}$	t^2	$\frac{t^3}{3}$	4	$8t^2$	$0.392t^2\hat{i} + (1.961t^2 - 2)\hat{j}$	$-4.9[\ln(1 - 0.5x)]^2 + 1000$	4.082×10^{-1}	0.402
	6	$\sqrt{2}$	$\sqrt{\frac{1}{2}}$	$\frac{t^2}{2}$	$\frac{t^3}{6}$	6	$18t^2$	$0.493t^2\hat{i} + (2.959t^2 + 1)\hat{j}$	$-5.444 \times 10^{-1} [\ln(1 - x)]^2 + 2000$	9.184×10^{-1}	0.705
	7	1	$\sqrt{\frac{3}{4}}$	$\frac{2}{3}t^3$	$\frac{t^4}{6}$	$12t$	$36t^4$	$0.196t^2\hat{i} + (0.98t^2 + 5)\hat{j}$	$-1.96 \times 10^{-1} [\ln(1 - 1.25x)]^2 + 2000$	1.633	1.695
	8	$\sqrt{7}$	$\sqrt{\frac{27}{28}}$	$\frac{t^3}{3}$	$\frac{t^4}{12}$	$18t$	$81t^4$	$1.213t^2\hat{i} + (4.851t^2 - 1)\hat{j}$	$-3.063 \times 10^{-1} [\ln(1 - 2.667x)]^2 + 1000$	2.296×10^{-1}	0.743