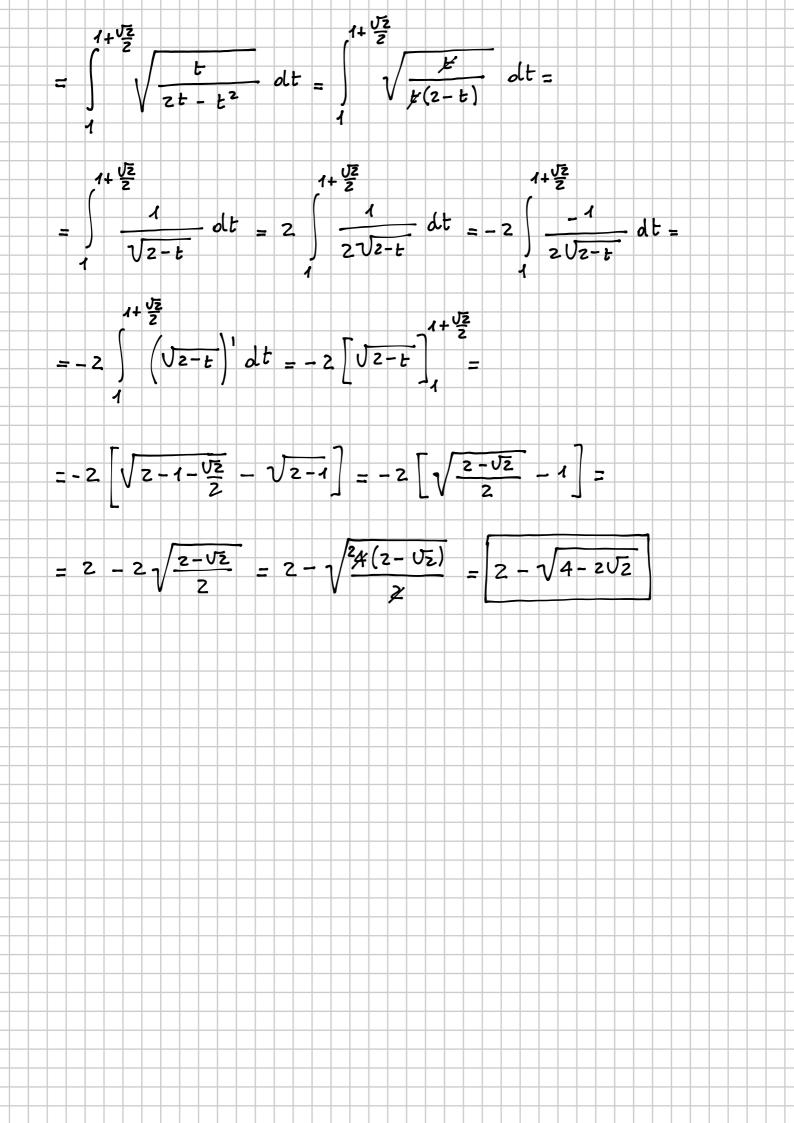
$$\frac{\text{HETODO}}{100} \quad \underline{N} \quad \text{SOSTITUZIONE} \quad \text{PER} \quad \text{INTEGRALI} \quad \text{DEFINITI}$$

$$\frac{105}{1-1} \quad \frac{x+1}{\sqrt{x+2}} dx = \begin{bmatrix} \frac{4}{3} \\ \frac{1}{3} \end{bmatrix}$$

$$\frac{1}{100} \quad \frac{1}{1-1} \quad \frac{x+1}{\sqrt{x+2}} dx = \begin{bmatrix} \frac{4}{3} \\ \frac{1}{3} \end{bmatrix}$$

$$\frac{1}{100} \quad \frac{1}{1-1} \quad \frac{1}$$



$$[e-2]$$

INTEGRALI INDEFINITI 
$$\int f'(x) g(x) dx = f(x)g(x) - \int f(x)g'(x)dx$$

$$\int x^{2}e^{x} dx = \int x^{2} \cdot (e^{x})^{1} dx = x^{2}e^{x} \begin{vmatrix} 1 & 1 & 1 \\ 0 & 1 & 1 \end{vmatrix}$$

$$= (1^{2} \cdot e^{1} - 0^{2} \cdot e^{0}) - 2 \int xe^{x} dx = 1$$

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$$\int x^$$

$$= e - 2 \left[ \times e^{\times} \Big|_{0}^{1} - \int_{0}^{1} e^{\times} d \times \right] =$$

$$= e - 2 \left[ e - e^{\times} \Big|_{0}^{1} \right] = e - 2 \left[ e - \left( e^{1} - e^{0} \right) \right] =$$

$$= e - 2 \left[ \frac{q}{-e} + 1 \right] = \left[ e - 2 \right]$$

CALWLARE LA DERIVATA:

$$G(x) = \int_{1}^{2x^{2}} \sqrt{4 + t^{3}} \, dt \qquad \left[ G'(x) = 8x\sqrt{1 + 2x^{6}} \right]$$

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$$F(x) = \int_{1}^{x} \sqrt{4 + t^{3}} dt \qquad f(x) = 2x^{2} \qquad G(x) = F(f(x))$$

$$G'(x) = \left[F(f(x))\right] = F'(f(x)) \cdot f'(x) = \sqrt{4 + (2x^{2})^{3}} \cdot 4x = 2x^{2}$$

$$= \sqrt{4 + 8x^{6}} \cdot 4x = \left[8 \times \sqrt{4 + 2x^{6}}\right]$$