$$f(x) = \begin{cases} \kappa x^{\frac{1}{2}} & \text{or } x = 3 & \text{if } k \in \mathbb{R} \\ 0 & \text{otherwise} \end{cases}$$

$$k = \int_{-\infty}^{+\infty} F(x) dx = 1$$

$$\int_{0}^{3} kx^{\frac{1}{2}} dx$$

$$k \int_{\Omega} x^{\frac{1}{2}} dx$$

$$k \left(\frac{\chi^{\frac{1}{2}+1}}{\chi^{\frac{1}{2}-\frac{1}{2}}} \right)^{\frac{3}{6}}$$

$$k \left[\begin{array}{c} \frac{1}{2} + 1 \\ \frac{1}{2} - \frac{1}{2} + 1 \\ 1 + \frac{1}{2} \end{array} \right]$$

$$\left[\begin{array}{ccc} \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} \end{array}\right]$$

$$k \left[3^{\frac{3}{2}} \cdot \frac{2}{3} - 0^{\frac{3}{2}} \right] = 1$$

$$K\left(\sqrt[3]{9},\frac{2}{3}\right)$$

(2) Funzione di Distribuziona

 \times

Esercizi Blocco 2[2]

$$F \times = \int_{0}^{\infty} K x^{\frac{1}{2}} dx$$

$$F \times = k \int_{0}^{x} x^{\frac{1}{2}} dx$$

$$Fn: \frac{1}{340} \left[\frac{\chi^{\frac{3}{2}}}{\frac{3}{2}} - 0 \right]$$

$$= \frac{1}{3.46} \cdot \varkappa^{\frac{3}{7}} \stackrel{?}{=}$$

$$= \frac{1}{3.46} \cdot \frac{2(x^{\frac{3}{2}})}{3}$$

$$= \frac{1}{2\sqrt{3}} \cdot \frac{2\sqrt{2}}{3}$$

$$\frac{1}{\sqrt{3}} = \sqrt{\frac{2}{3}}$$

$$F_{2}(x) = \begin{cases} 0 & x < 0 \\ \frac{3\pi^{3}}{3\pi^{3}} & 0 < x < 3 \\ 1 & 2 > 3 \end{cases}$$

Media

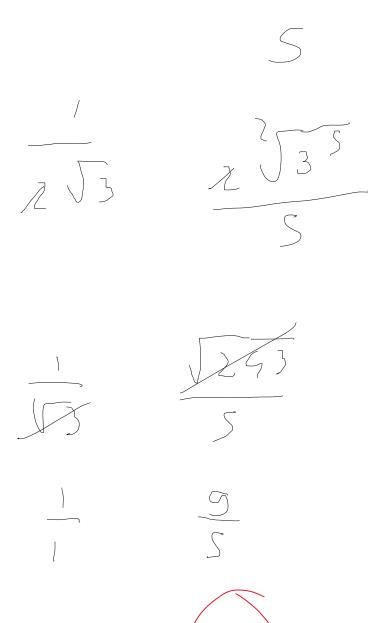
$$\frac{1}{3,46} \int_{\mathcal{X}} \frac{3}{2} d\chi$$

$$\frac{1}{3,46} \qquad \chi^{\frac{3}{2}} \qquad \mathcal{A}\chi$$

$$\frac{1}{346} \left[\begin{array}{c} \frac{5}{2} \\ \times \\ \frac{5}{2} \end{array} \right] - \left[\begin{array}{c} \frac{5}{2} \\ \times \\ \frac{5}{2} \end{array} \right] = \frac{3}{2}$$

$$\frac{1}{2\sqrt{3}} \left(\frac{5}{2} \frac{2}{5} \right)$$

$$\frac{1}{2\sqrt{3}} \cdot \sqrt{3} \cdot \frac{2}{5}$$



$$\int_{-}^{-} (x)^{2} \left(\frac{9}{5} \right)$$

$$\begin{cases}
F(x) \cdot x^2 dx \\
x = x^2 x^2 dx
\end{cases}$$

$$\frac{3}{2} \times \frac{5}{2} \times \frac{5}$$

$$\frac{37}{7}$$

$$\frac{1}{2}$$

$$\frac{1}{7}$$
 $\frac{1}{7}$ $\frac{1}{7}$ $\frac{1}{7}$ $\frac{1}{7}$ $\frac{1}{7}$ $\frac{1}{7}$ $\frac{1}{7}$ $\frac{1}{7}$

YAR, ALZA

$$V_{A}(x) = \frac{27}{7} - \left(\frac{9}{5}\right)$$

$$\frac{1}{z}$$

$$F_{Y} = P(Y \leq y)$$

$$F_{y} = P(x^{\frac{1}{2}} = y) = P(x = y^{2}) = \left(\frac{\sqrt[3]{y^{6}}}{3 \cdot r_{3}}\right) = \left(\frac{\sqrt[3]{y^{6}}}{3 \cdot r_{3}}\right)$$

$$F_{y}(Y) = \begin{cases} y = 0 \\ \frac{y^{3}}{3 \cdot Y}, & G = 0 \end{cases}$$

tunzione D: Deny'TA

$$=\frac{5}{3\cdot r}, \frac{d}{dx}$$

$$=\frac{\sqrt{3}}{9}\frac{3}{\sqrt{1}}$$

$$\frac{1}{9} \cdot \left| \frac{3}{3} \right| \frac{1}{3}$$

$$-\left(\frac{\sqrt{3}}{3}\right)^2$$

$$\begin{cases} \frac{\sqrt{3}}{3} & y^2 & 0 & 7 & 5 & 3 \\ 0 & \sqrt{3} & \sqrt$$

Esercizi Blocco 2[2]