FORMULÁRIO - M008

PRINCIPAIS DIRETIVAS DE DERIVAÇÃO E INTEGRAÇÃO:

$$\frac{d}{dx}[K] = 0 \qquad \frac{d}{dx}[K \cdot f(x)] = K \cdot f'(x) \qquad \int K \cdot dx = Kx + C$$

$$\frac{d}{dx}[f(x)^m] = m \cdot f(x)^{m-1} \cdot f'(x) \qquad \int f(x)^m \cdot f'(x) \cdot dx = \frac{f(x)^{m+1}}{m+1} + C$$

$$\frac{d}{dx}[a^{f(x)}] = a^{f(x)} \cdot \ln(a) \cdot f'(x) \qquad \int a^{f(x)} \cdot f'(x) \cdot dx = \frac{a^{f(x)}}{\ln(a)} + C$$

$$\frac{d}{dx}[\log_a(f(x))] = \frac{f'(x)}{\ln(a) \cdot f(x)} \qquad \int \frac{f'(x)}{f(x)} \cdot dx = \ln(f(x)) + C$$

$$\int \cos(f(x)) \cdot f'(x) \cdot dx = -\cos(f(x)) + C$$

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FÓRMULAS DE PROBABILIDADE:

$$P(B \mid A) = \frac{P(A \cap B)}{P(A)} \qquad P(B \mid A) = \frac{P(A \mid B)P(B)}{P(A)} \qquad P[A \cup B] = P[A] + P[B] - P[A \cap B]$$

$$P[A \cap B] = P[A] \cdot P[B]$$
 se A e B foremore $f_X(x) = \frac{dF_X(x)}{dx}$ $F_X(x) = P[X \le x]$ independentes.

$$P[a \le X \le b] = \sum_{x=a}^{b} f_X(x)$$

$$P[a < X \le b] = F_X(b) - F_X(a)$$

$$P[a \le X \le b] = \int_{a}^{b} f_{X}(x).dx$$

$$P[a \le X \le b, c \le Y \le d] = \sum_{y=c}^{d} \sum_{x=a}^{b} f_{XY}(x, y) \qquad f_{Y}(y) = \frac{f_{X}(x)}{|g'(x)|}\Big|_{x=g^{-1}(y)}$$

$$P[a \le X \le b, c \le Y \le d] = \int_{y=c}^{d} \int_{x=a}^{b} f_{XY}(x, y) dx dy$$