

$$\lim_{x \rightarrow +\infty} \frac{f(x)}{g(x)} = \lim_{x \rightarrow +\infty} \frac{e^{-(x+1)}}{x} + \frac{\ln(x+2)}{x+2} \cdot \frac{x+2}{x} = 0$$

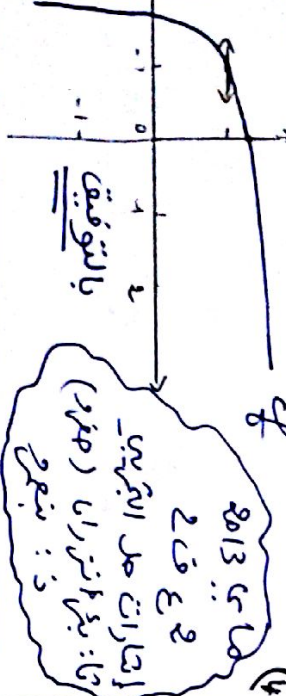
$$\lim_{x \rightarrow +\infty} \frac{e^{-x+2}}{x+2} = \lim_{x \rightarrow +\infty} \frac{e^{-x+2}}{x+2} = 0$$

$$\lim_{x \rightarrow +\infty} \frac{e^{-x+1}}{x+1} = 0$$

$$f(x) = -e^{-(x+1)} + \frac{1}{x+2} = \frac{-e^{-(x+1)}(x+2) + 1}{(x+2)e^{x+1}}$$

$$E(-1, 1) \text{ من النقطة}$$

x	-2	-1	+∞
f(x)	+	+	+
g(x)	-∞	-∞	+



$$I = \int_1^0 \frac{x}{x+2} dx = [x - 2\ln|x+2|]_1^0 = 3.5 \text{ كذا}$$

$$u(x) = x \quad u'(x) = 1$$

$$v(x) = \frac{1}{x+2} \quad v'(x) = -\frac{1}{(x+2)^2}$$

$$S = \int_1^0 |f(x)| dx = \int_1^0 e^{-(x+1)} dx + \int_1^0 \ln(x+1) dx$$

$$= [-e^{-(x+1)}]_1^0 + 2\ln 2 - 1 = 2\ln 2 - \frac{1}{e} \text{ (un)}$$

$$\frac{c-a}{b-a} = e^{i\frac{\pi}{6}} \Rightarrow c-a = e^{i\frac{\pi}{6}}(b-a)$$

$$b-a = [1, \frac{\pi}{6}] \text{ وزاوية } A$$

$$c-a = [1, \frac{\pi}{6}] (b-a) = [\sqrt{3}, -\frac{\pi}{2}]$$

$$z^2 - 3z - 2 = 2(z-3-2i)$$

$$P(A) = \frac{C_3^1 + C_3^2}{C_3^3} = \frac{1}{5}$$

$$P(B) = \frac{C_3^1 + C_3^2}{C_3^3} = \frac{2}{5}$$

$$P(C) = \frac{C_3^1 + C_3^2}{C_3^3} = \frac{2}{5}$$

$$P(A \cap B) = \frac{C_3^1 + C_3^2}{C_3^3} = \frac{1}{5}$$

$$P(A|B) = \frac{P(A \cap B)}{P(B)} = \frac{1}{2}$$

$$P(D) = \frac{6^2}{6^2} \times \frac{1}{10} + \frac{2!}{4!} \times \frac{4!}{4!} \times \frac{6}{10} = \frac{112}{275}$$

$$g(x) = e^{x+1} - 1$$

$$g'(x) = e^{x+1}$$

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$$(S): (x-3)^2 + (y-2)^2 + (z-1)^2 = 9$$

$$d(A, (S)) = \frac{11\sqrt{3} \sqrt{11}}{11\sqrt{2} \sqrt{11}} = \sqrt{2}$$

$$x = \sqrt{t}, y = t, z = -1-t$$

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