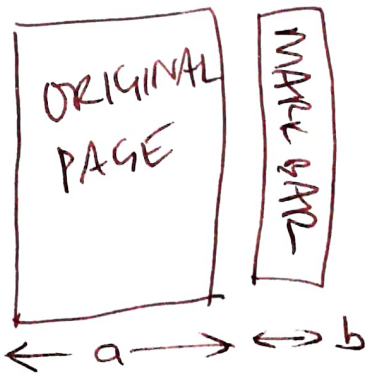
7123456

A1 (a) This is an answer to a question on how to add marking boxes to a pdf. They should appear somewhere over there →

(b) But actually, if we drew a diagram, we might see this.



I forget something ... !!!

Something extra entered by hand using a very old netbook tablet

Put it in here using the pdf editor

(c) The maths for the width is trivial

$$w = a + b.$$

OR:

$$\int_0^{a+b} dl = a+b$$

which is what we expect.

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A2

(a) We start with an exponential

$$e^{-\alpha x} = A(x)$$

then make up some conditions to complete the specification, such as

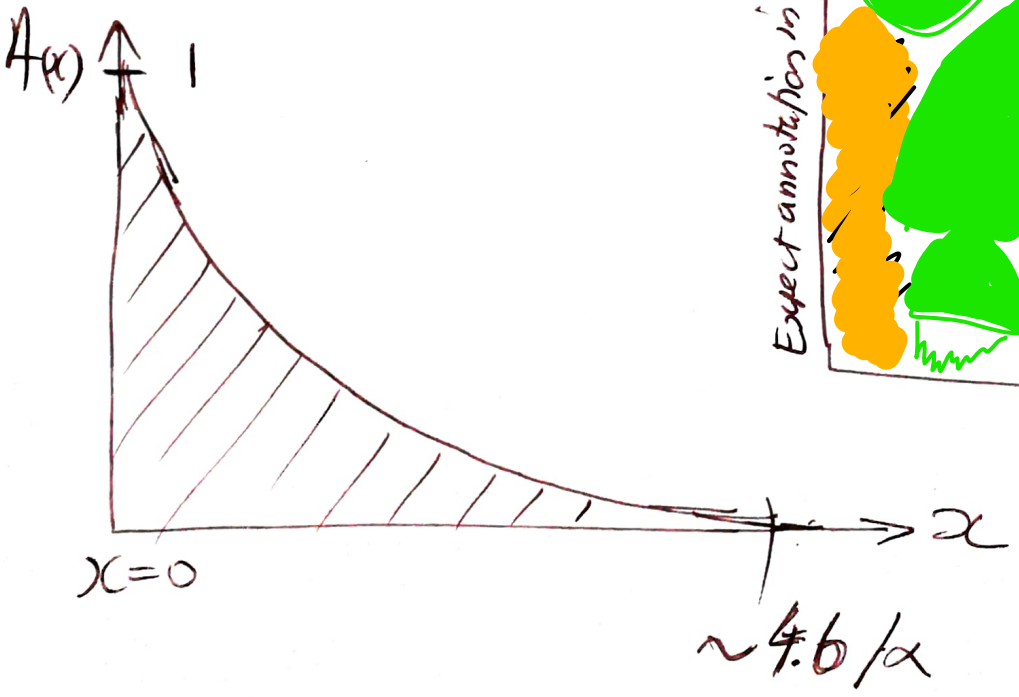
$\alpha \leq \alpha_{max}$, and

$\alpha \geq \alpha_{min}$.

(b) Again, not rocket science that

$\alpha_{min} \leq \alpha \leq \alpha_{max}$

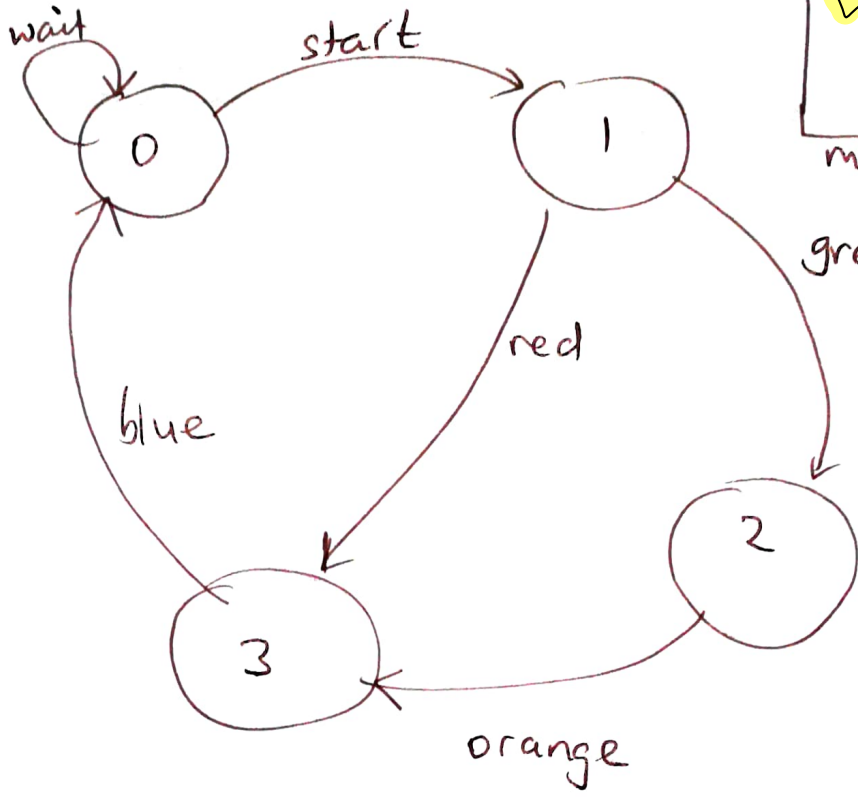
(c)



7 1 2 3 4 5 6

B1

(a)



$V = \frac{w}{2}$

more annotation in here

"The coloured states are numbered starting at zero" makes no sense because the edges have colour names, and these represent transitions.

I'll edit/annotate in this box electronically

(b) $\overline{A+B} = \overline{A}.\overline{B}$

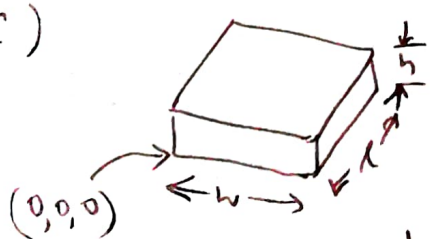
$A = A(B+\overline{B})$

$\oint V\,dv = 0$

kind of makes it a bit simple.

because I forgot something. oops.

(c)



$$\oint_r \psi_r\,dv = \int_0^h \int_0^d \int_0^w \psi(x,y,z)\,dx\,dy\,dz$$

$$\psi(x,y,z) = x + 2y - z^2$$