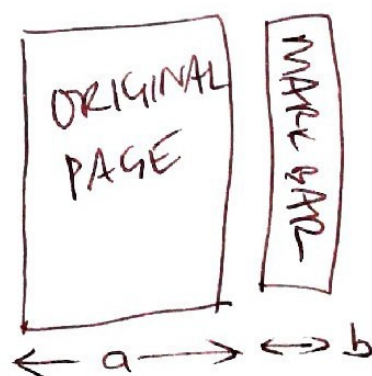




7123456

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 forgot something so I'll put it in here using the pdf editor

Something extra entered by hand using a very old windows tablet

(c) The maths for the width is trivial

$$w = a + b.$$

OR:

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

which is what we expect.

Sub-total

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section

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A2 (a) We start with an exponential

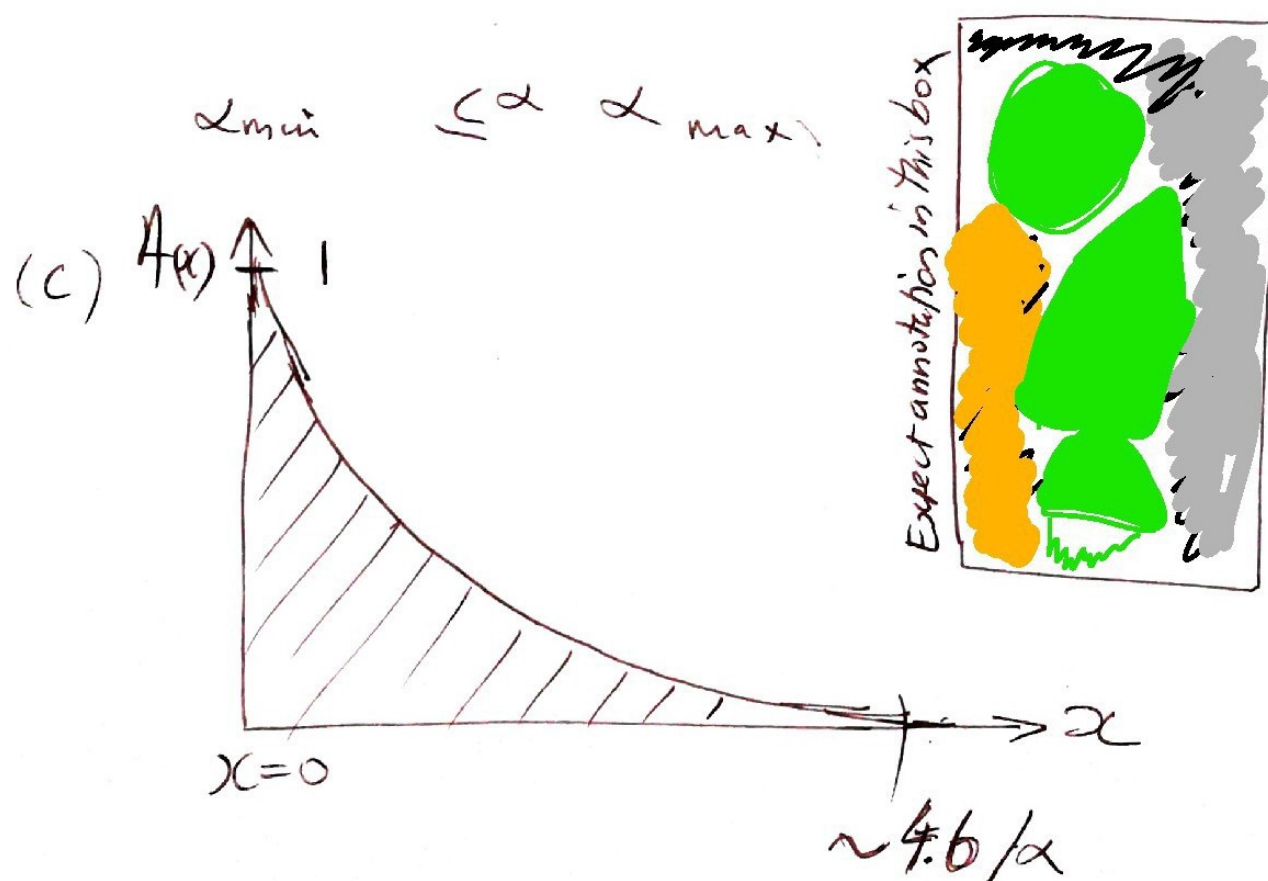
$$e^{-\alpha x} = A(x)$$

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

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

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

(b) Again, not rocket science that



Sub-total

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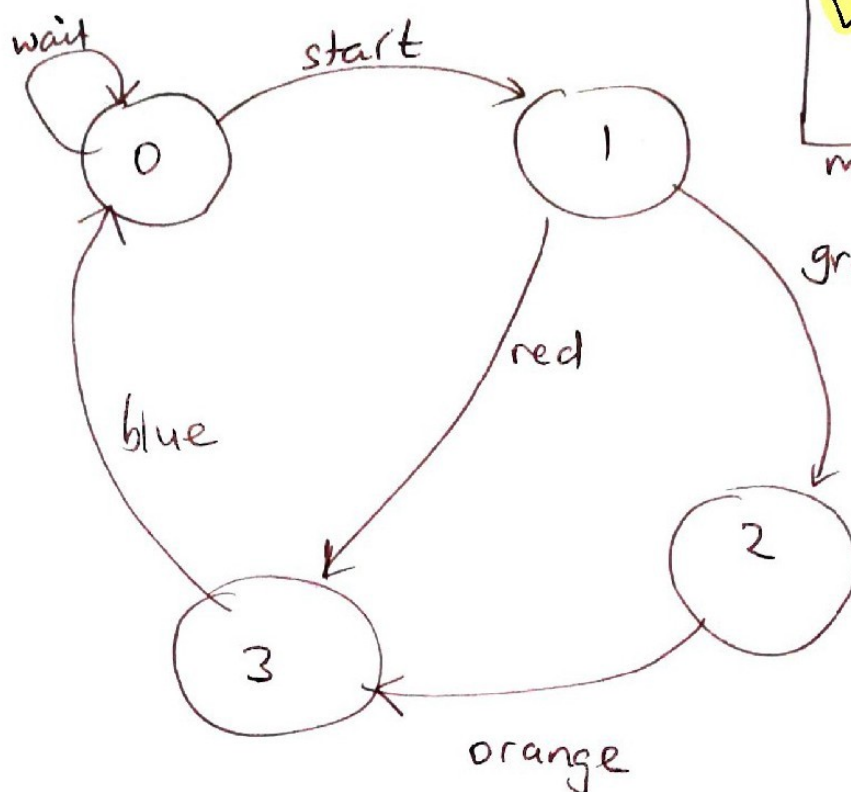
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B1

(9)



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

more annotation in here

green

orange

"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

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

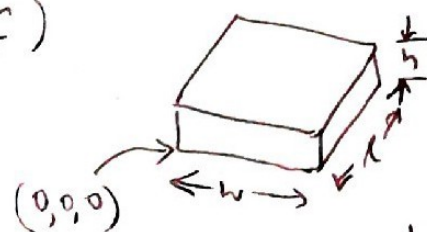
$$A = A(B+\overline{B})$$

$$\oint V dv = 0$$

kind of makes it a bit simple.

because I forgot something, opps.

(c)



$$\oint_V \psi dv = \int_0^h \int_0^w \int_0^l \psi(x,y,z) dx dy dz$$

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

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mark awarded

Q

section

number

mark awarded

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