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.

(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

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

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

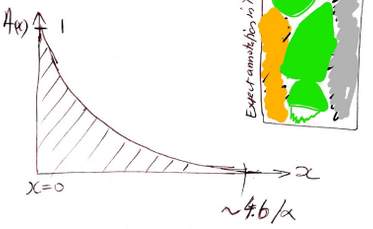
$\alpha \leq \alpha_{max}$, and

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

(b) Again, not rocket science that

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

(c)



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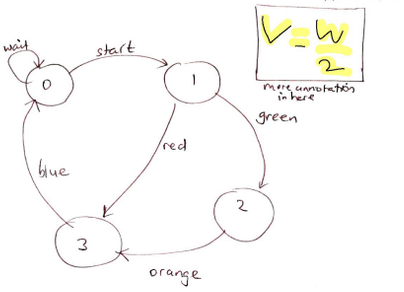
B1

(a)



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

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

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

I'll add annotate in this box electronically

$\oint V dv = 0$

kind of makes it a bit simple.

because I forgot something, oops.

(c)

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

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

student filename goes here