A2 (a) We start with an exponential

$$e^{-\alpha x} = A(x)$$
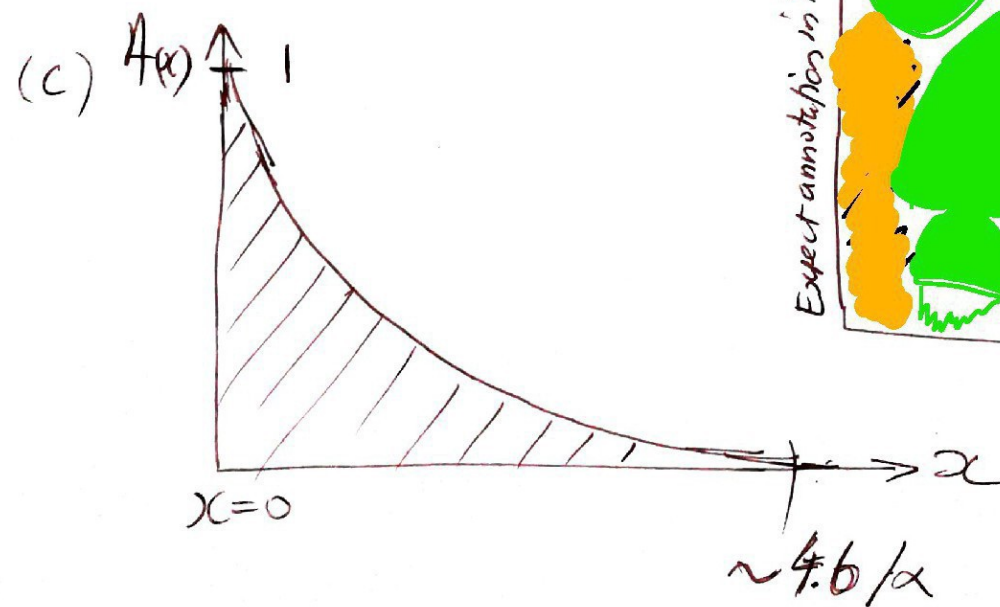
Then make up some conditions to complete the specification, such as

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

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

(b) Again, not rocket science that

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

(c)

$A(x)$, 1

$x=0$

$\to x$

$\sim 4.6/\alpha$

Expect annotations in this box

Sub-total
26
27
28
5

Mark

section
Q
number
mark awarded

section
Q
number
mark awarded

✓ ☐ Mark

Check

?!

section
Q
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number
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✓ ☐ Check

Moderate

✓ ☐ No change

change

section
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Comment/query?

✓ ☐ Fixed   ? ☐ Not sure