

4. [Maximum mark: 12]

A deep sea diver notices that the intensity of light, I , below the surface of the ocean decreases with depth, d , according to the formula

$$I = k(L_0)^{-d}$$

where L_0 is expressed as a percentage, d is the depth in metres below the surface and k is a constant.

The intensity of light at the surface is 100 %.

(a) Calculate the value of k .

$$100 = k(L_0)^0$$

[2 marks]

(b) Find the intensity of light at a depth 25 m below the surface.

[2 marks]

To be able to see clearly, a diver needs the intensity of light to be at least 5 %.

(c) Using your graphic display calculator, find the greatest depth below the surface at which she can see clearly.

[2 marks]

The table below gives the intensity of light (correct to the nearest integer) at different depths.

Depth (d)	0	10	20	30	40
Intensity (I)	100	61	38	24	15

(d) Using this information draw the graph of I against d for $0 \leq d \leq 100$. Use a scale of 1 cm to represent 10 metres on the horizontal axis and 1 cm to represent 10 % on the vertical axis.

[4 marks]

Some sea creatures have adapted so they can see in low intensity light and cannot tolerate too much light.



on your graph the range of depths sea creatures could inhabit are between 5 % and 15 % of the light intensity at the surface.

[2 marks]



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