

1. [Maximum mark: 5]

Let $f(x) = \ln x - 5x$, for $x > 0$.

(a) Find $f'(x)$.

[2]

(b) Find $f''(x)$.

[1]

(c) Solve $f'(x) = f''(x)$.

[2]

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$$(a) \quad f'(x) = \frac{1}{x} - 5$$

$$(b) \quad f''(x) = x^{-2} - 5$$

$$f''(x) = -x^{-2} = -\frac{1}{x^2}$$

$$(c) \quad \frac{1}{x} - 5 = -\frac{1}{x^2}$$

$$x - 5x^2 = -1 \quad \therefore \quad 5x^2 - x - 1 = 0$$

$$x = \frac{1 \pm \sqrt{20+1}}{10}$$

$$= \frac{1 + \sqrt{21}}{10} = 0.558$$

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Ib Maths Sl 2013 Past Paper2

Victor M. Corman



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web 1 description of diffusion and osmosis a water solution that contains nutrients wastes gases salts and other substances surrounds cells this is the external environment of a cell the cell s outer surface of the plasma membrane is in contact with this external environment while the inner surface is in contact with the cytoplasm

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web facilitated diffusion moves substances down their concentration gradient using the cell s energy the spreading of something more wildly diffusion equilibrium a state in which opposing forces or influences are balanced osmosis a process in which molecules of a solvent tend to pass through membrane