

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)  $f'(x) = \frac{1}{x} - 5$  ✗

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(b)  $f'(x) = x^{-1} - 5$

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

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

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

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

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

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# Igcse Edexcel Maths Past Paper 24

**RM Cervero**



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