

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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