

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

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

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

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

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

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

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

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Shasha Hu



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