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Math_Questions_0049

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1. Discuss the characteristics of a probability density function.
2. Show that if any function when defined between two points, a and b , can be used to create a density function between those two points.

Evaluate the given definite intergral using the fundamental theorem of calculus

12. $\int_{-1}^0 (-3x^5 - 3x^2 + 2x + 5) dx$

Integration

28. $\int_e^{e^2} \frac{1}{x \ln x} dx$

Sketch the given region R and then find the area

10. R is the region bounded by the curve $y = \frac{1}{x^2}$ and the lines $y = x$ and $y = \frac{x}{8}$

14. R is the triangle bounded by the line $y = 4 - 3x$ and the coordinate axes.