$$f_{\xi}(x) = \begin{cases} c x^{-3}, & x \in [1, +\infty) \\ 0, & \text{weare} \end{cases}$$
1.)
$$f_{\xi}(x) \ge 0 = c c = c c$$
2.)
$$\int_{-\infty}^{\infty} f_{\xi}(x) dx = 1$$

$$\int_{-\infty}^{\infty} c x^{-3} dx = c c c c$$

$$\int_{-\infty}^{\infty} c x^{-3} dx = c c c c$$

=1 => C=2

anbern: C=2