

opg 4.1.2

$$F_X(x) = \int_{-\infty}^{\infty} f_X(x) dx = \int_1^5 \frac{2}{x^3} dx =$$

$$= -x^{-2} \Big|_1^5 = -\frac{2}{5^3} - \left(-\frac{2}{1^3}\right) = \underline{\underline{\frac{2}{125} - 2}}$$