

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

$$F(x) = \int x^{-2} dx = \frac{x^{-1}}{-1} + C = -\frac{1}{x} + C$$

$$F(1) = -1 + C = 1 \Rightarrow C = 2$$

$$F(x) = -\frac{1}{x} + 2$$



$$F(1) = -1 + 2 = \underline{\underline{1}}$$