

$$\int \frac{2}{x^3} dx$$

$$\int \frac{2}{x^3} dx = 2 \int \frac{1}{x^3} dx = 2 \int x^{-3} dx = \cancel{2} \cdot \frac{x^{\cancel{-2}}}{\cancel{-2}} = -\frac{1}{x^2} + C$$