$$\int_1^5 u^{-3} + \cos(u)\ du$$

$$\int \frac{1}{u^3} du + \int \cos(u)\ du$$

$$\int \frac{1}{u^n} du = -\frac{1}{(n-1)\times u^{n-1}}$$

$$\frac{1}{(3-1)\,u^{3-1}}$$

$$\frac{1}{2u^2} + \sin(u)$$

$$\left(-\frac{1}{2u^2} + \sin(u)\right)\Bigg|_1^5$$

$$-\frac{1}{2(5)^2} + \sin(5) - \left(-\frac{1}{2(1)^2} + \sin(1)\right)$$

$$-\frac{1}{50} + \frac{1}{2} + \sin(5) - \sin(1)$$

$$-\frac{1}{50} + \frac{25}{50} + \sin(5) - \sin(1)$$

$$\frac{24}{50} + \sin(5) - \sin(1)$$

$$\frac{12}{25} + \sin(5) - \sin(1) \approx -1.3209$$ //