

A) $\int_{2}^{5} \frac{1}{\sqrt{n}} dn = \int_{2}^{\infty} n^{-\frac{1}{2}} dn = \left[2n^{\frac{1}{2}} \right] = 2\sqrt{5} + 2\sqrt{2} = 2(\sqrt{5} + \sqrt{2})$ i) 51 5 00 do = 51 (5 ne) 5 dro = [(5 ne) 5] = + x55 - 1 x 005 = 356 - 506 = 555 - 20500 - 555 - 10500 $\frac{1}{3}\int_{1}^{3}430x-1\,dx=\int_{1}^{3}4(x-1)^{\frac{1}{3}}=\frac{1}{3}(x-1)^{\frac{1}{3}}=\frac{1}{3}x+\frac{1}{3}=\frac{3}{3}\sqrt{7}=21\sqrt[3]{7}$ K) 59 t - 3 dt = 59 t - 3 = 50 t - 3t - 2 = 2 3t - 60t $= 2 \times 404 - (9 - (9 - 16 - 10 - 3 + 6 = 14 - 6 = -4)$ 2) $\int_{1}^{3} (n^{2} + \frac{1}{10^{2}}) dn = \int_{1}^{3} (n^{2} + n^{2}) = \left[\frac{1}{3} n^{3} - n^{-1}\right]_{1}^{3} = \frac{1}{3} \times 3^{3} - 3^{-1} - \left(\frac{1}{3} - 1\right) =$ = 9- 1/3 - 1/2 +1 = 10 - 1/3 = 28 2) a) $\int_0^2 6(a) da = \int_0^2 a^2 da + \int_0^2 (2-10) da = \left[\frac{1}{3} \pi^3 \right]_0^2 + \left[\frac{1}{2}\pi a - \frac{1}{2}\pi^2 \right]_0^2$ = 1-0+2-3 = 2+18-9 = 2+3 = 5