

$$2\pi \int_0^1 r^2 \, dr + 2\pi \int_1^2 r^2 \, dr + 2\pi \int_2^3 r^2 \, dr + 2\pi \int_3^4 r^2 \, dr + 2\pi \int_4^5 r^2 \, dr + 2\pi \int_5^6 r^2 \, dr + 2\pi \int_6^7 r^2 \, dr + 2\pi \int_7^8 r^2 \, dr + 2\pi \int_8^9 r^2 \, dr + 2\pi \int_9^{10} r^2 \, dr$$