

# ASSIGNMENT # 7.2d

①  $\int_0^1 \pi (x^2)^2 dx$       ②  $\int_0^2 \pi (-\frac{1}{2}x+1)^2 dx$

③  $\int_1^2 \pi (\frac{1}{x})^2 dx$       ④  $\int_2^5 \pi (\sqrt{x-1})^2 dx$

⑤  $\int_0^4 \pi (\sqrt{y})^2 dy$       ⑥  $\int_0^1 \pi (y-y^2)^2 dy$

⑦  $\int_0^1 \pi (\sqrt{x})^2 dx - \int_0^1 \pi (x^2)^2 dx$       ⑧  $\int \pi (\sec x)^2 dx - \int \pi (1)^2 dx$

⑨  $\int_0^2 \pi (2y)^2 dy - \int_0^2 \pi (y^2)^2 dy$       ⑩  $\int_0^{-1} \pi (1)^2 dy - \int_0^1 \pi (y^{\frac{3}{2}})^2 dy$

⑪  $\int_0^1 \pi (1-x)^2 dx - \int_0^1 \pi (1-\sqrt{x})^2 dx$       ⑫  $\int_{-2}^2 \pi (4-x^2)^2 dx$

⑬  $\int_0^1 \pi (2-x^4)^2 dx - \int_0^1 \pi (2-1)^2 dx$       ⑭  $\int_1^3 \pi (\frac{1}{x^2}+1)^2 dx - \int_1^3 \pi (0+1)^2 dx$

⑮  $\int_{-1}^1 \pi (1)^2 dy - \int_{-1}^1 \pi (y^2)^2 dy$       ⑯  $\int_0^1 \pi (2-y^2)^2 dy - \int_0^1 \pi (2-y)^2 dy$

⑰  $\int_0^1 (\sqrt{y}+1)^2 dy - \int_0^1 \pi (y^2+1)^2 dy$       ⑱  $\int_0^4 \pi (4-1)^2 dy - \int_0^2 \pi (2-1)^2 dy$   
 $- \int_2^4 \pi (y-1)^2 dy$

⑲  $\int_0^8 \pi (\frac{1}{4}x)^2 dx$       ⑳  $\int_0^2 \pi (8)^2 dy - \int_0^2 \pi (4y)^2 dy$

㉑  $\int_0^2 \pi (8-4y)^2 dy$       ㉒  $\int_0^8 \pi (2)^2 dx - \int_0^8 \pi (2-\frac{1}{4}x)^2 dx$

㉓  $\int_0^8 \pi (\sqrt[3]{x})^2 dx - \int_0^8 \pi (\frac{1}{4}x)^2 dx$

㉔  $\int_0^2 \pi (4y)^2 dy - \int_0^2 \pi (y^3)^2 dy$

㉕  $\int_0^8 \pi (2-\frac{1}{4}x)^2 dx - \int_0^8 \pi (2-\sqrt[3]{x})^2 dx$

㉖  $\int_0^2 \pi (8-y^3)^2 dy - \int_0^2 \pi (8-4y)^2 dy$

㉗  $\int_0^8 \pi (2)^2 dx - \int_0^8 \pi (\sqrt[3]{x})^2 dx$

㉘  $\int_0^2 \pi (y^3)^2 dy$