

Due Date: Sep 21, 2018 (12:00 noon)

Thomas' Calculus (12th Ed.)

§15.2: 2, 7, 9, 12, 23, 30, 39, 50,
60, 77.

Note: In Thomas' Calculus, brackets in the iterated integral are omitted:

$$\int_a^b \int_{g_1(x)}^{g_2(x)} f(x,y) dy dx \quad \text{means} \quad \int_a^b \left[\int_{g_1(x)}^{g_2(x)} f(x,y) dy \right] dx$$

(and said this is using vertical cross-sections)

Similar,

$$\int_c^d \int_{h_1(y)}^{h_2(y)} f(x,y) dx dy \quad \text{means} \quad \int_c^d \left[\int_{h_1(y)}^{h_2(y)} f(x,y) dx \right] dy$$

(and said this is using horizontal cross-sections)