

15.3

$$3. \int_0^2 \int_0^1 \int_0^1 x e^{y-2z} dz dy dx = \frac{(e^3 - e^2 - e + 1)}{e^2}$$

$$5. \int_0^1 \int_0^3 \int_0^3 (x - y)(y - z) dz dy dx = -\frac{27}{4}$$

$$7. \int_0^a \int_0^b \int_0^c (x + z)^3 dz dy dx = \frac{b((a+c)^5 - a^5 - c^5)}{20}$$

$$9. \int_0^1 \int_0^x \int_y^x (x + y) dz dy dx = \frac{1}{6}$$

$$11. \int_0^1 \int_0^{\sqrt{1-x^2}} \int_0^1 (xyz) dz dy dx = \frac{1}{16}$$

$$13. \int_0^1 \int_0^{1-x} \int_0^{1-x-y} (e^z) dz dy dx = e - \frac{5}{2}$$

$$15. \int_0^1 \int_0^x \int_0^{\sqrt{9-x^2-y^2}} z dz dy dx = \frac{25}{12}$$

$$17. \int_0^2 \int_0^{\sqrt{4-x^2}} \int_{y^2}^{8-2x^2-y^2} x dz dy dx = \frac{128}{15}$$