

(1) $2/3$.

(2) $1/3$.

(3) $1/4$.

(5) $\int_0^1 \int_y^{2-y} \int_0^{1-x/2-y/2} f(x, y, z) dz dx dy.$

(6) $\int_0^2 \int_0^{3-3/2x} \int_0^{6-3x-2y} f(x, y, z) dz dy dx.$

(7) $\int_{-2}^2 \int_{-\sqrt{4-x^2}}^{\sqrt{4-x^2}} \int_0^{4-x^2-y^2} f(x, y, z) dz dy dx.$

(8) 0 .

(9) $29/3$.

(10) -3 .

(11) $-3/2$.

(13) $57/3$.

(14) 3 .

(15) 4 .

(17) $-384/5$.

(18) -1 .

(19) -5 .

(20) 1 .

(21) $26/3$.

(22) 0 .

(25) 4π .

(27) $f_{xx} + f_{yy} + f_{zz}$.