

[Submitting HW Tips](#)**HW #9**

1 Fill in the boxes: $\int_{-3}^3 \int_0^{\sqrt{9-x^2}} \int_{\sqrt{x^2+y^2}}^3 (5x-4z) dz dy dx = \int_{\boxed{}}^{\boxed{}} \int_{\boxed{}}^{\boxed{}} \int_{\boxed{}}^{\boxed{}} \boxed{} dy dx dz$.

- 2** Let W be that part of the solid sphere $x^2 + y^2 + z^2 \leq 25$ which lies above the plane $z = 3$.
Set up but do not evaluate the triple integral

$$I = \iiint_W (2x^2 + 2y^2 + 7z) dV$$

in *Rectangular, Cylindrical and Spherical Coordinates*.

- 3** **Section 6.1** (Page 313): #7.

- 4** **Section 6.2** (Page 326): # 3, 5(b), 19.

- 5** **Section 6.3** (Page 337): #5.