

Assignment 4

Coverage: 15.5 in Text.

Exercises: 15.5. no 3, 4, 21, 24, 25, 27, 29, 32, 33, 38, 39.

Submit 15.5 no. 24, 27, 29 by Feb 15.

Supplementary Problems

1. Find the equations of the planes passing through the origin and (a) $(1, 2, 3)$, $(0, -2, 0)$ and (b) $(0, 2, -1)$, $(3, 0, 5)$.
2. Find the equation of the plane passing the points $(1, 0, -1)$, $(4, 0, 0)$, $(6, 2, 1)$.
3. Let P be the paraboloid $z = x^2 + y^2$ bounded by $z = h$. Find its volume.