

p. 1051 (13.4)

Evaluate or estimate the surface area.

3. The portion of $z = x^2 + 2y$ between $y = x$, $y = 0$ and $x = 4$
5. The portion of $z = 4 - x^2 - y^2$ above the xy -plane
7. The portion of $z = \sqrt{x^2 + y^2}$ below $z = 2$
15. The portion of $z = x^2 + y^2$ between $y = x$, $y = 1$ and $x = 0$
17. The portion of $z = y^2$ below $z = 4$ and between $x = -2$ and $x = 2$
19. The portion of $z = \sqrt{4 - x^2 - y^2}$ above $z = 0$
20. The portion of $z = \sqrt{9 - x^2 - y^2}$ above $z = 0$