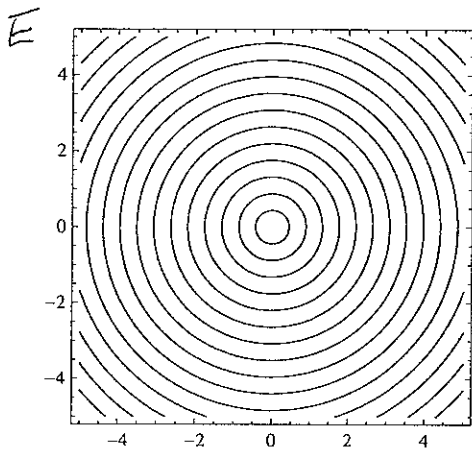
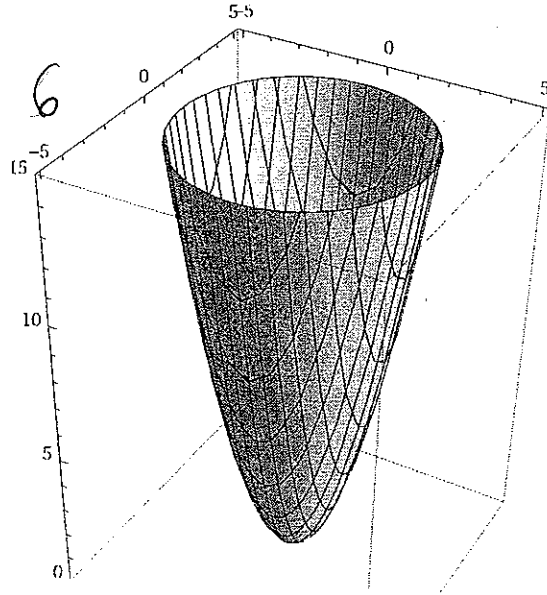
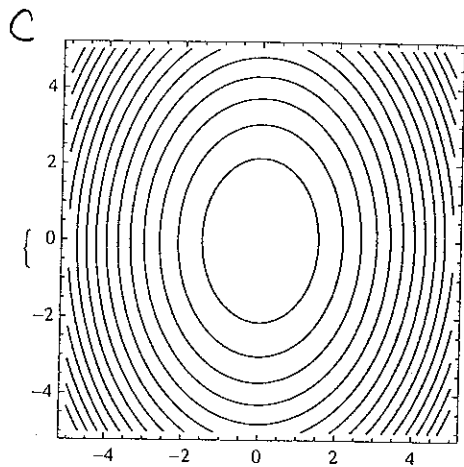
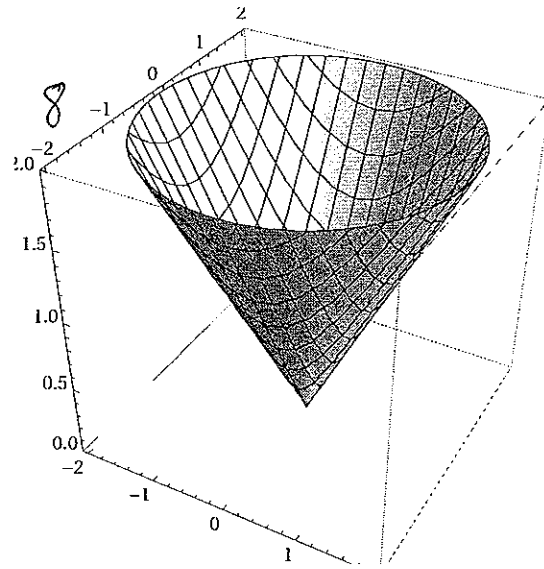


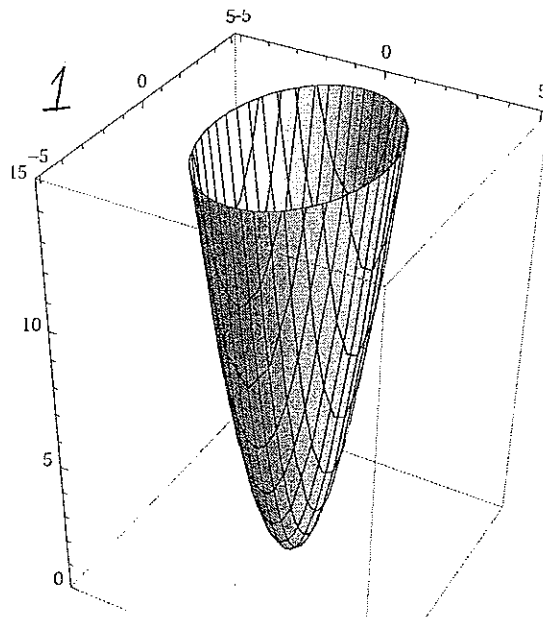
Circular paraboloid
b. $z = x^2 + y^2$



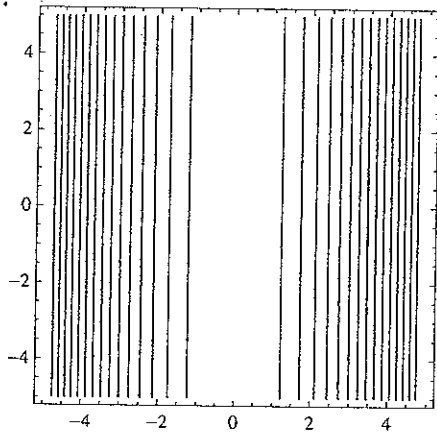
Cone
c. $z^2 = x^2 + y^2$



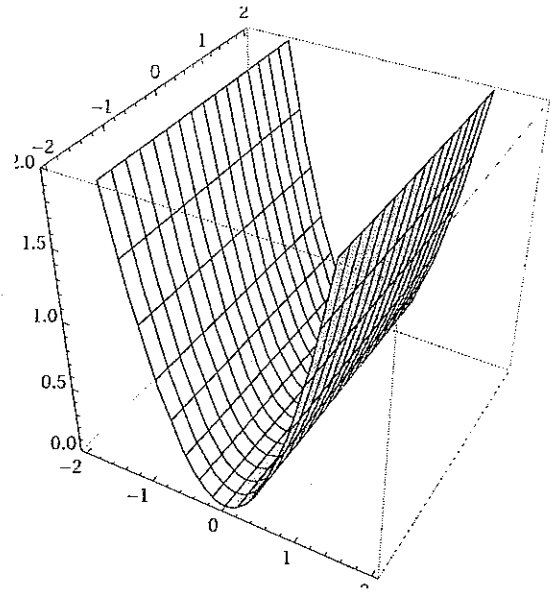
Elliptical paraboloid
k. $z^2 = x^2 + 2y^2$



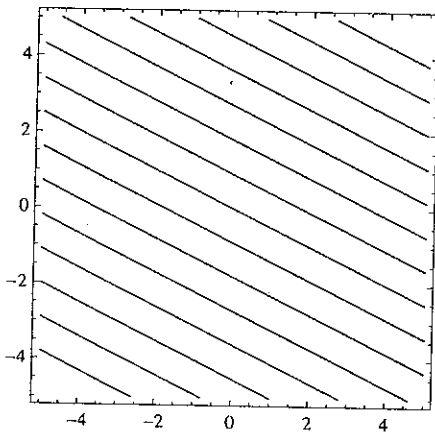
F.



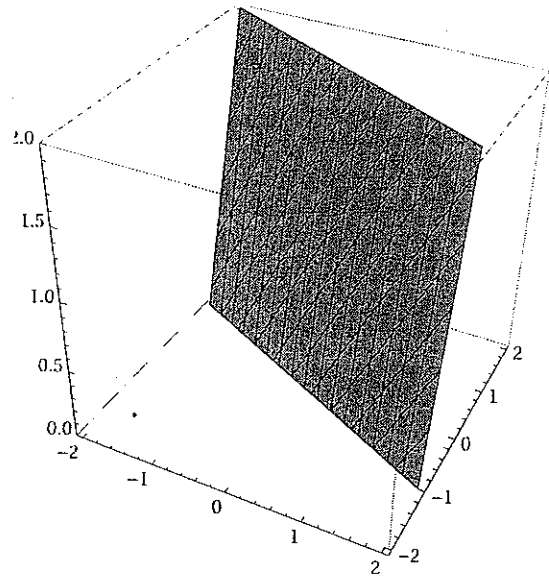
e. $z = x^2$
parabolic cylinder



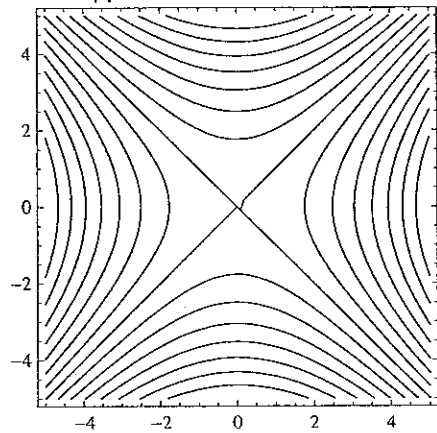
B.



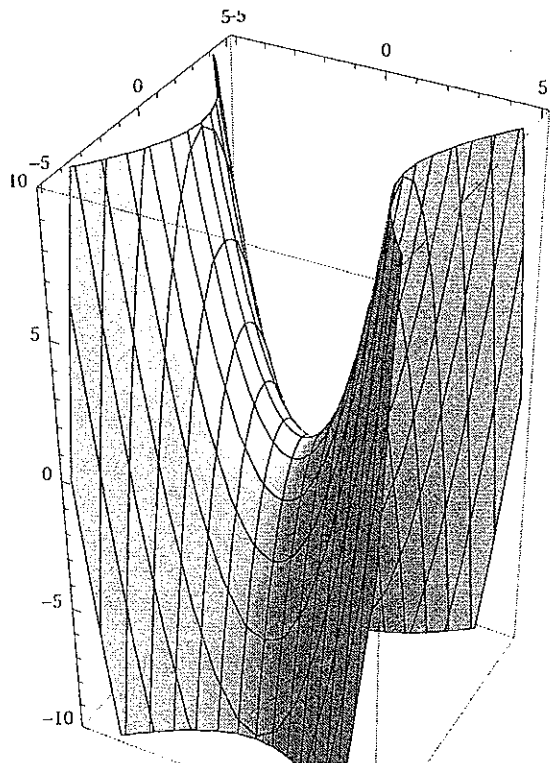
h. $z = x + 2y$
plane
(also a cylinder)

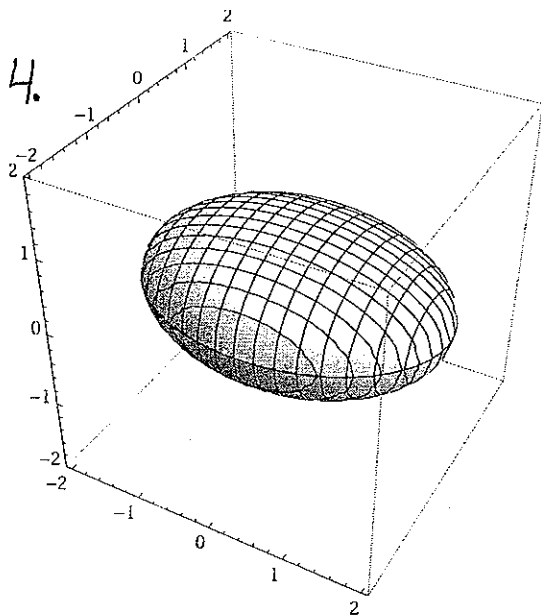
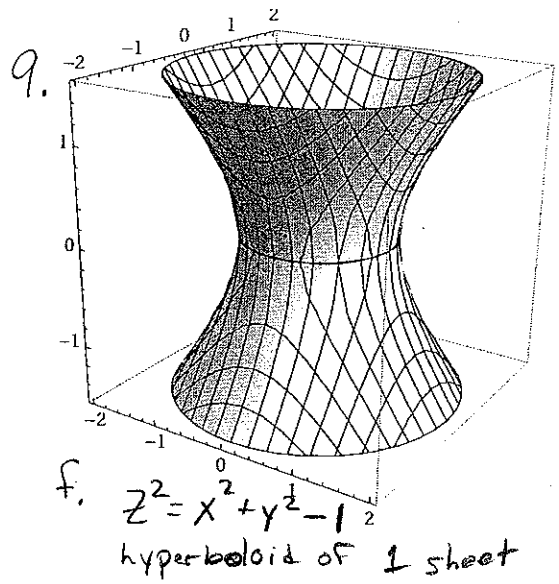
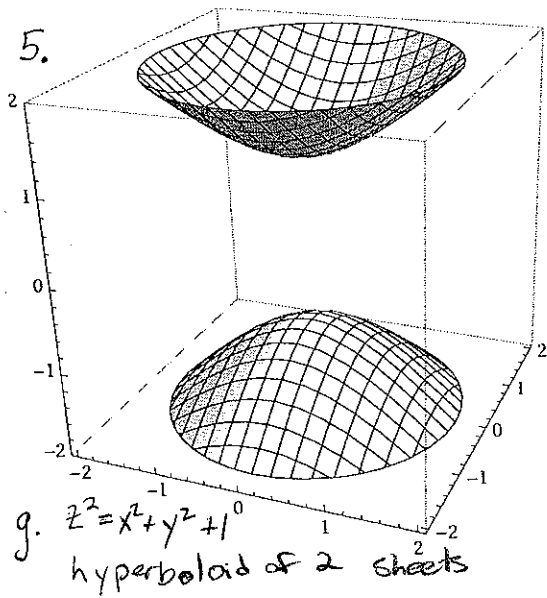
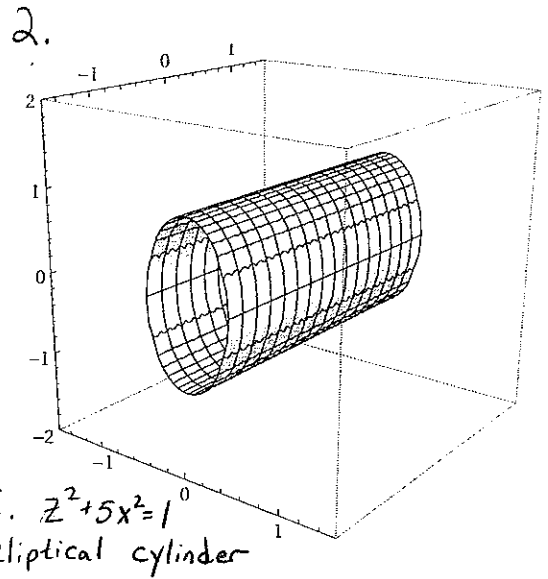
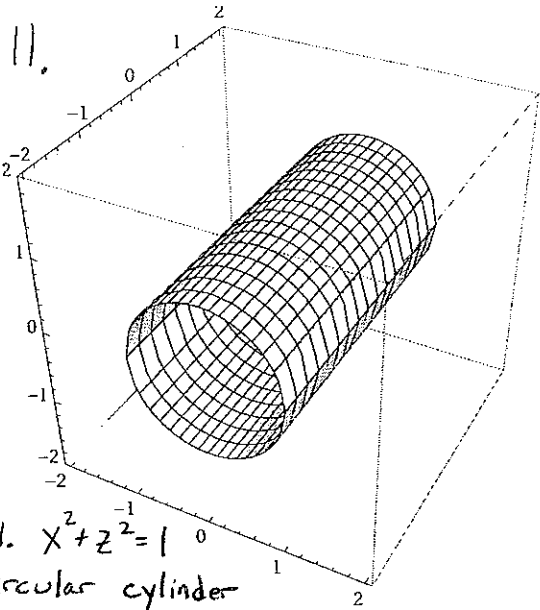


D.



a. $z = x^2 - y^2$
hyperbolic paraboloid





j. $z^2 = 1 - \frac{x^2}{4} - \frac{y^2}{2}$

Ellipsoid

ANSWERS

$$(\alpha) \quad (x > 0, y > 0) \cup (x < 0, y < 0)$$

$$(\beta) \quad x > 0, y > 0$$

$$(\gamma) \quad x \geq 0, y \neq 0$$

$$(\delta) \quad y \neq 0$$

$$(\epsilon) \quad x + y \geq 0$$

$$(\zeta) \quad y \geq 0$$

$$(\eta) \quad x \neq 0$$