

# Piani e Quadriche



Figura 1: I piani di equazione  $y = 2$  e  $z = 2$



Figura 2: I cilindri di equazione  $x^2 + z^2 = 1$  e  $x^2 + y^2 = 1$



Figura 3: I cilindri di equazione  $x^2 - y^2 = 1$  e  $y - x^2 = 0$

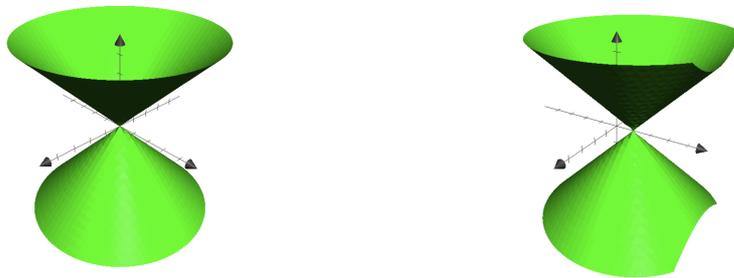


Figura 4: I coni di equazione  $x^2 + y^2 = z^2$  e  $x^2 + (y - 1)^2 = z^2$

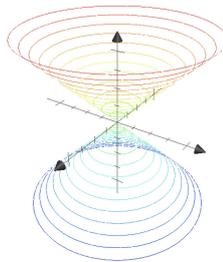


Figura 5: Insiemi di livello del cono  $x^2 + y^2 = z^2$



Figura 6: La sfera  $x^2 + y^2 + z^2 = 1$  e l'ellissoide  $(x)^2 + (y)^2 + (\frac{z}{2})^2 = 1$



Figura 7: L'ellissoide  $(\frac{x}{a})^2 + (\frac{y}{a})^2 + (\frac{z}{b})^2 = 1$ ,  $0 < a < b$



Figura 8: I paraboloidi di equazione  $z = x^2 + y^2$  e  $z = 1 - x^2 - y^2$

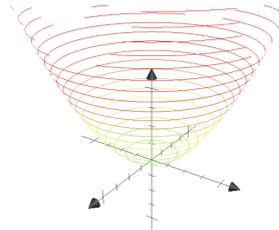
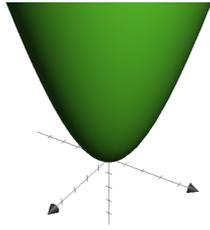


Figura 9: Il paraboloido di equazione  $z = a(x^2 + y^2)$ ,  $a > 0$

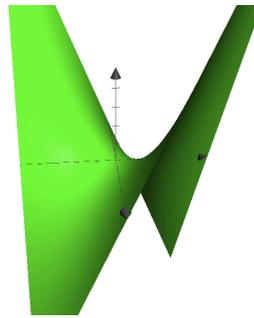
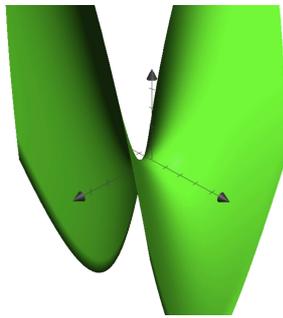


Figura 10: I paraboloidi di equazione  $z = x^2 - y^2$  e  $z = xy$

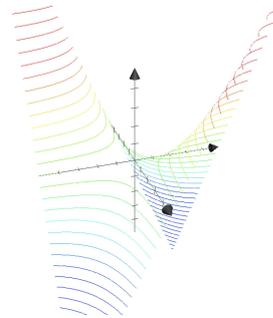
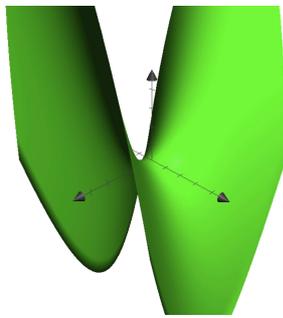


Figura 11: Il paraboloido di equazione  $z = x^2 - y^2$

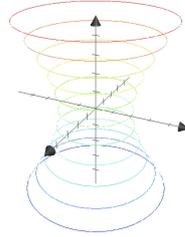
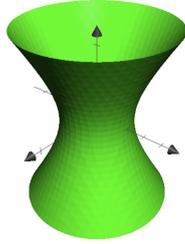


Figura 12: L'iperboloide di equazione  $z^2 + 1 = x^2 + y^2$

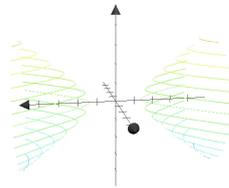
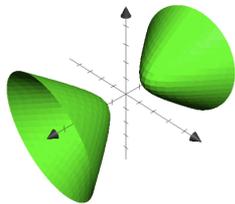


Figura 13: L'iperboloide di equazione  $x^2 = y^2 + z^2 + 1$