

MAT2454 - Cálculo II - POLI

Alguns gráficos interessantes e suas curvas de nível

1. $f(x, y) = 4x^2 + y^2$

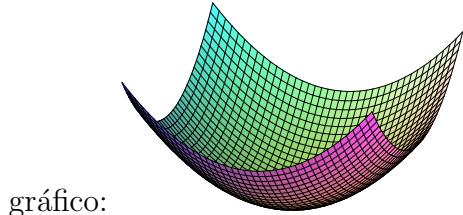
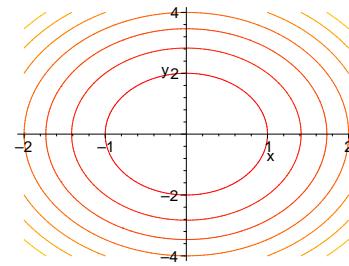


gráfico:



curvas de nível:

2. $f(x, y) = x^2 - y^2$

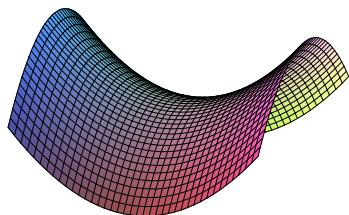
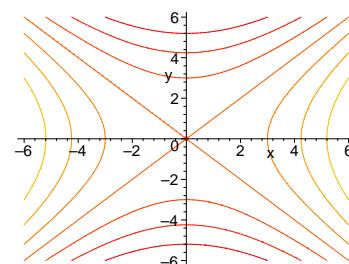


gráfico:



curvas de nível:

3. $f(x, y) = \frac{y}{x-1}, x > 1$

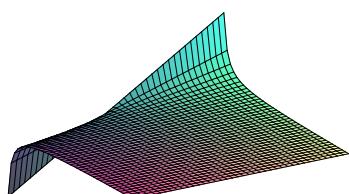
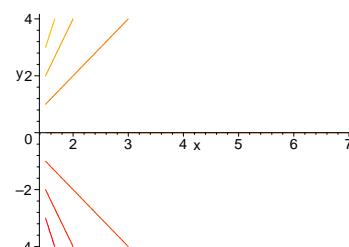


gráfico:



curvas de nível:

4. $f(x, y) = \frac{x^2y}{x^2 + y^2}$

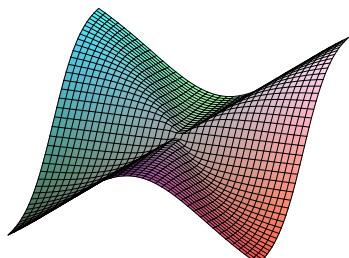
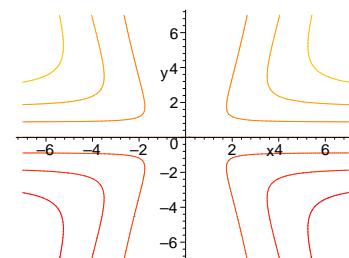


gráfico:



curvas de nível:

5. $f(x, y) = \frac{x^2 - y^2}{x^2 + y^2}$

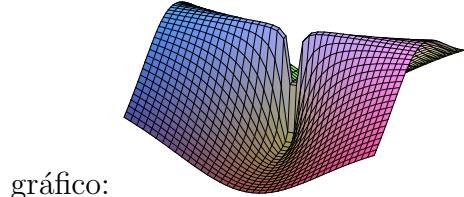
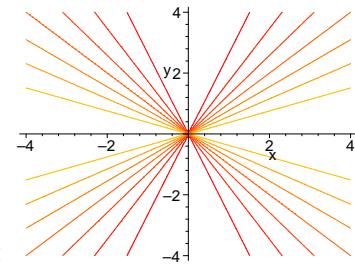


gráfico:



curvas de nível:

6. $f(x, y) = \frac{2xy^2}{x^2 + y^4}$

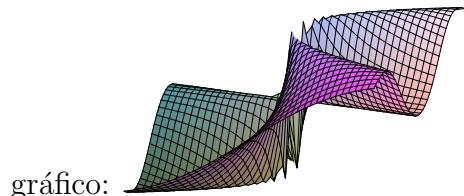
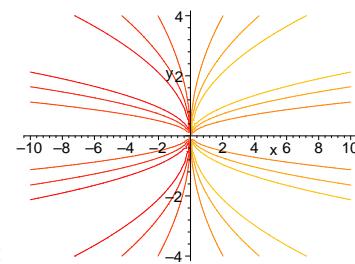


gráfico:



curvas de nível:

7. $f(x, y) = \frac{xy(x^2 - y^2)}{x^2 + y^2}$

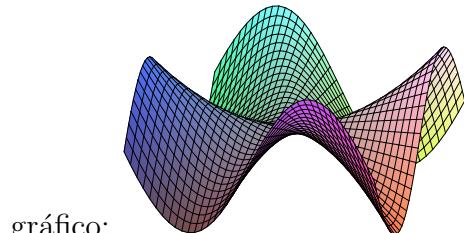
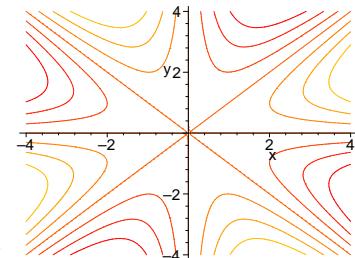


gráfico:



curvas de nível: