```python
import matplotlib.pyplot as plt
import numpy as np
import sys


def f(x, y):
    return 3 * (x - 5)**4 + 10 * (y - 9)**2


def g(x, y):
    return np.maximum(x - 5, 0) + 10 * np.abs(y - 9)


def main(outfile):
    x = np.linspace(0, 10, 400)
    y = np.linspace(0, 18, 400)
    X, Y = np.meshgrid(x, y)
    Z_f = f(X, Y)
    Z_g = g(X, Y)

    fig = plt.figure(figsize=(12, 6))

    ax = fig.add_subplot(1, 2, 1, projection='3d')
    ax.plot_surface(X, Y, Z_f, cmap='viridis')
    ax.set_title('$f(x, y)$')
    ax.set_xlabel('$x$')
    ax.set_ylabel('$y$')
    ax.set_zlabel('$f(x, y)$')

    ax = fig.add_subplot(1, 2, 2, projection='3d')
    ax.plot_surface(X, Y, Z_g, cmap='magma')
    ax.set_title('$g(x, y)$')
    ax.set_xlabel('$x$')
    ax.set_ylabel('$y$')
    ax.set_zlabel('$g(x, y)$')

    plt.savefig(outfile)
    plt.show()

def main_contour(outfile):
    x = np.linspace(0, 10, 400)
    y = np.linspace(0, 18, 400)
    X, Y = np.meshgrid(x, y)
    Z_f = f(X, Y)
    Z_g = g(X, Y)

    fig = plt.figure(figsize=(12, 6))

    ax = fig.add_subplot(1, 2, 1)
    ax.contourf(X, Y, Z_f, levels=30, cmap='viridis')
    ax.set_title('$f(x, y)$')
    ax.set_xlabel('$x$')
    ax.set_ylabel('$y$')
    # ax.set_zlabel('$f(x, y)$')

    ax = fig.add_subplot(1, 2, 2)
    ax.contourf(X, Y, Z_g, levels=30, cmap='viridis')
    ax.set_title('$g(x, y)$')
    ax.set_xlabel('$x$')
    ax.set_ylabel('$y$')
    # ax.set_zlabel('$g(x, y)$')

    plt.savefig(outfile)
    plt.show()


if __name__ == "__main__":
    if len(sys.argv) != 2:
        print("Usage: python script.py <output_file>")
        sys.exit(1)

    outfile = sys.argv[1]
    main_contour(outfile)

```