

MATH 406

Dr. Salma M. Aboras Al-Tuwairqi

Additional Exercises

Sheet2

I. Find the general solution of the following PDE using both methods and verify the solution:

1. $3z_x - 5z_y - xyz = 0$.

2. $z_x + 4z_y - xz = x$.

3. $xz_x - yz_y = z - x$.

4. $z_x - xz_y = 4$.

5. $z_x + z_y - z = y$.

6. $z_x + yz_y - xz = 0$.