



TUTORIAL-1

Problems based on Formation of partial differential equations

1. Eliminate the arbitrary constants a&b from $z=(x^2+a^2)(y^2+b^2)$
2. Eliminate f from $z=f(xy/z)$
3. Form the PDE by eliminating f from $f(x^2+y^2+z^2, x+y+z)$
4. Form the differential equation by eliminating the arbitrary functions f and g in $z=x^2f(y)+y^2g(x)$