First-order PDF: 5(x, y, 2, b, q) =0

Solvica: 5 = 5 (x,y)

classification of I order PDE

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2) Semi-linean PDE

P(7,4)p+ Q(7,4)9 = 12(7,4,2)

P(y, y, z) p + p(<math>y, y, z) q = R(x, y, z)

Nonlineau PDE

A first orden PDE Heat does not fall under any of the above three hyper.

- 1) yp+ mg= myz+y-n (linear PDE)
- 2 xp+y9= 12 (Cemi-linean PDE)
- (3) (x2-y2) p+ (y2-x2) r - x2+y2-2 (y2-x2) r
- (non-linear PDE)

Solutions of I order PDE

PDE: f(M, y, Z, P, V) =0

(1) (omplete integral or complete

A solution of the PDE Linvolving only considered constants.

@ Greneral Integral [or general solution]

A solution of the PDE involving continuous function (s).