My Inspiration
Late. Shivlal Dhamone
and
Shri. V. G. Patil Saheb

Subject Teacher
Santosh Dhamone

Practical 1: Find the general solution of Langrange's equation.

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Problem 1:

Solve the PDE of $\frac{y^2 z}{x} \ p + xz \ q = y^2$

Problem 2:

Solve the PDE of $\ p + 3 \ q = 5z + tan(y - 3x)$

Problem 3:

Solve the PDE of $yz \frac{b-c}{a} \ p + zx \frac{c-a}{b} \ q = \frac{a-b}{c} xy$

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Problem 4:

Solve the PDE of $(y + z)\ p + (z + x)\ q = x + y$

Problem 5:

Solve the PDE of $(x + 2z)\ p + (4xz - y)\ q = 2x^2 + y$

Problem 6:

Solve the PDE of $(y - zx)\ p + (x + yz)\ q = x^2 + y^2$

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Problem 7:

Solve the PDE of $x^2 \frac{\partial z}{\partial x} + y^2 \frac{\partial z}{\partial y} = (x + y)z$

Problem 8:

Find the general solution / complete integral of PDE
$z(x\ p - y\ q) = y^2 - x^2$

Problem 9:

Find the general solution / complete integral of PDE
$y^2\ p - xy\ q = x(z - 2y)$

Problem 10:

Solve the PDE of $\frac{\partial z}{\partial x} + \frac{\partial z}{\partial y} = x + y + z$