

Breakouts

$$X_1 = \frac{\partial}{\partial x} + A_1(x, y) \frac{\partial}{\partial z}$$

$$X_2 = \frac{\partial}{\partial y} + A_2(x, y) \frac{\partial}{\partial z}$$

$$D = \text{Span} \{ X_1, X_2 \}$$

D is integrable $\Leftrightarrow \int \dots$
in terms
of A_1, A_2 .