Out me

o Veders weeker Fields . lar. ved ions

n) lie bradact = lie dans value

3) Lie algebreis

1) trobusus

S) Caredors

6) Sym2 - undorces

Den 7, De Gernotions bour ("Q") -> D. 3 is on isomplisher. = {D: CO(Dd) - R R. Villear 5.6.

D(59) = F(0) D(4) - (9(0) D(4) }

Thurse given by D -> ED(xi) 2/2. Check hower Sivedson:

OR = 20(0) 05 UF:

R(4. Te) =) 2 = (0,4) do.

Taylor = For Flor (0) 1 Exiglis), glor-25 co

. O(1) = D(1) = 2D(1) => 0 => D(Fa) = 0

. DF = ... (

2) IF 4:6 std, West along 4 = Der (co(tod), co(s) ie)

T V:= D(x) 2. Check equality of 865 4 8 way (6/8)= 0

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DE = (D(1) 25)

Prop 1 ("5-5, Vider Ridds doug 5 -> Dor (("(s), ("(s))) "son Esoundism. To run done orgued hup In. 2 mg Vect (5) -> Text (6/15) (10/15) (17 on 1504. Paug & vi = S(Mxi) y= 5. Dig } D(yn) = D(y) + Dig) + 50 D(m) = 0 Lie bracket Operation (xi) F = XY F-YXF Check Der of CO(S)! Congulation () 1 5 mil = 0 · (X,4) = - (+;1) [1,4]7 + 77 = Ex2,7]. Then I'(=[X'() (dealy four symmetric)

Then $\int_{x} (1 = [x])$ (dealy four symmetric) $T = 1.4 \cdot (2, x) \longrightarrow 5$ botal Row of $x \in P$.

Since $x = 1.4 \cdot (2, x) \longrightarrow 5$ congular $1.4 \cdot (2, x) = 1.4 \cdot (2$

J

= -(m + 50 ((x + 4g) - (4 + = 4.8 = -YX\$ * XYF lx (84) = 4 (Lx) + 2x + 4 Den V ved gare w/ created [,] · hiloras · jacobi dent. S 1) Wat (5) 2) Lx(G) (tur. B) [>, X] (= tur. B) y, x + q indues orny 150m => Darrotsons, èle natural (U) Froheurus Der A distribution is a substandle EETS Dru E is rusduline if Xi & E => CXi) & E Dan An 'waterpren world's MES GA. TMEER GREM. Den & vonk + is conquely instegrable 'A local submersion? Q Why egyment Z'interal v-usich thou end point.

r. 15. h & Oz dohed with [,]; the lower letitust

LX 15 10 ONR. York. Thun Compaddy integrable es imadative T () (age (Ei E's) = 0 let I he trousinsal construct local unp In.v. Rt -> M 1 show i'v's a diffeo: (1 of a time) · (nuert diode $E_i = \frac{2}{2\kappa^2} + \frac{2}{2\kappa^2}$ $\frac{2}{2\kappa^2} = \frac{2}{2\kappa^2} + \frac{2}{2\kappa^2} + \frac{2}{2\kappa^2} = \frac{2}$ (m - 100) = > (C;, C;) € 5gon (-) En & heg's a sub-algebra, then the cower dust is rutegreble, and the lintegral wild then o mornal connected grues a subget T (wetl, Little = H (ble boan containly by undue) hiluse to => subgp

Jh., bz