

```

> restart
> with(PDETools) : depvar := u(x, y, z, t)
                                depvar := u(x, y, z, t)

```

(1)

```

> with(DifferentialGeometry) : with(JetCalculus) :
> DGsetup([x, y, z, t], [u], E, 3)
                                frame name: E

```

(2)

```

E > alias(M=M(x, y, z, t, u[ ], u1, u2, u3, u4))
                                M

```

(3)

```

E > PDEtools[declare](M(x, y, z, t, u[ ], u1, u2, u3, u4) quiet)
                                M(x, y, z, t, u[ ], u1, u2, u3, u4) will now be displayed as M

```

(4)

```

E > diff(M, u) · (u4,4 - u1,1 - u2,2 - u3,3) - (u4,4 - u1,1 - u2,2 - u3,3)
· TotalDiff(diff(M(x, y, z, t, u[ ], u1, u2, u3, u4), u1), x) - diff(M, u1)
· TotalDiff((u4,4 - u1,1 - u2,2 - u3,3), x)
                                Mu (u4,4 - u1,1 - u2,2 - u3,3)

```

(5)

```

E > TotalDiff(diff(M, u1), x)
                                0

```

(6)

```

E > diff(M(x, y, z, t, u[ ], u1, u2, u3, u4), u1)
                                0

```

(7)

```

E >

```