

Subject: Session 44  
Year . Month . Date . ( )

od noline

1.

$$df|_P = 1dx + (-2)dy + 3dz$$

$$3x^2dx - 2ydy + dz = 0$$

$$dz = 2ydy - 3x^2dx$$

$$\therefore dz|_P = 4dy - 27dx$$

$$\Rightarrow dg|_P = dx - 2dy + 12dy - 8dx$$
$$= -8dx + 10dy$$

$$\nabla g|_P = \langle -8, 10 \rangle$$