

Subject: Session 41  
Year . Month . Date . ( )

$$1 \cdot 9 = 6uz + 4yz + uy = 72$$

$$f = xyz$$

$$\nabla f = \langle yz, uz, xy \rangle$$

$$\nabla g = \langle 6z+y, 4z+u, 6u+4y \rangle$$

$$yz = \lambda (6z+y)$$

$$uz = \lambda (4z+u)$$

$$uy = \lambda (6u+4y) \quad \left. \begin{array}{l} y=6z, u=4z, 72z^2=72 \\ \end{array} \right\}$$

$$6uz + 4yz + uy = 72 \quad \left. \begin{array}{l} z=1, u=4, y=6 \\ \end{array} \right\}$$