Subject: Session 19 Problems

Year. Month. Date. ( )

1.

$$r_1 \times r_2 = \begin{vmatrix} i & j & k \\ x_1 & y_1 & z_1 \\ x_2 & y_2 & z_2 \end{vmatrix} =$$

$$\langle y_1 z_2 - z_1 y_2, z_1 x_2 - x_1 z_2, x_1 y_2 - y_1 x_2 \rangle$$

$$\rightarrow \frac{d(r_1 \times r_2)}{dt} = r_1' \times r_2 + r_1 \times r_2'$$