

MAC 2313 Cal3      **Quiz 2**      21 Jan 2003      Name: \_\_\_\_\_  
Show **ALL** work for credit; be neat. Calculators can be used for graphing and calculating only. Give exact answers when possible.

1. Find an equation of the plane passing through the three points  $P(2, 1, -3)$ ,  $Q(5, -1, 4)$  and  $R(2, -2, 4)$ .

2. Find parametric equations of the line  $\ell$  through the points  $P(-5, 6, 7)$  and  $Q(-2, 3, 4)$  and find the point where the line  $\ell$  intersects the plane  $z = 1 - 2x + y$ .