Plane equations and normal vectors

Name: _____ Date: _____

6 questions | 12 marks

1. Give a normal to $3x - 2y + z = 7$. [2 marks]

2. Find the plane through (2,0,-1) with normal (1,2,3). [2 marks]

3. Find the plane through O spanned by (1,0,1) and (0,1,1). [2 marks]

4. Are $2x - 4y + 6z = 8$ and $x - 2y + 3z = 4$ equivalent planes? [2 marks]

5. Do O, (1,2,3), (2,4,6) determine a unique plane? [2 marks]

6. Parametrise the plane through (1,0,2) with directions (1,1,0), (0,1,1). [2 marks]