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]