Vector operations

Name: _____ Date: _____

6 questions | 12 marks

1. For a=(2,-1,3), b=(-1,4,2), find a+b and 3a-2b. [2 marks]

2. Find the midpoint of (2,4,-2) and (6,-2,8). [2 marks]

3. Find P one quarter of the way from (0,1,2) to (8,5,-2). [2 marks]

4. Are A(1,1,0), B(3,5,2), C(4,7,3) collinear? [2 marks]

5. Solve $2\mathbf{p} + (1, -1, 3) = (7, 5, -1)$. [2 marks]

6. For parallelogram ABCD in order, A(1,0,1), B(3,2,0), C(6,1,4), find D. [2 marks]