Practice worksheet | Coordinates and three-dimensional space

Describing routes and relative positions

Name: _____ Date: _____

6 questions | 12 marks

1. Start at (0,0,0). Move 2 in positive x, 3 in positive y and 1 in positive z. Give the endpoint. [2 marks]

2. Start at (3,2,1). Move 2 in negative y. Give the endpoint. [2 marks]

3. Start at (1,1,1). Move 4 in positive x then 2 in negative x. Give endpoint and distance. [2 marks]

4. Describe the change from A(2,5,1) to B(2,1,4). [2 marks]

5. Find the length of an axis-aligned route from (1,2,3) to (4,1,5) without reversing direction. [2 marks]

6. Mia says returning to the start means the total distance is zero. She walks 3 units out and 3 back. Correct her. [2 marks]