Practice worksheet | Functions and straight-line graphs

Parallel and perpendicular lines

Name: _____ Date: _____

6 questions | 12 marks

1. Are $y = 3x + 2$ and $6x - 2y = 5$ parallel, perpendicular or neither? [2 marks]

2. Find a line parallel to $y = -4x + 9$ through (1,2). [2 marks]

3. Find a line perpendicular to $y = x/3 - 2$ through (2,5). [2 marks]

4. Find the line perpendicular to y=7 through (-2,3). [2 marks]

5. Determine whether the lines joining (0,0) to (2,6), and (1,4) to (7,2), are perpendicular. [2 marks]

6. Two paths have equations $y = 2x + 5$ and $4x - 2y = -10$. Are they distinct parallel paths? [2 marks]