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 $y = \frac{x}{3} - 2$ 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]