Practice worksheet | Linear equations and graphs

Parallel/perpendicular lines as a natural school extension

Name: _____ Date: _____

6 questions | 15 marks

1. Are $y = 2x + 5$ and $y = 2x - 7$ parallel? Explain. [2 marks]

2. Find the gradient of a line perpendicular to $y = -\frac{2}{3}x + 1$. [2 marks]

3. Find the line parallel to $y = -3x + 8$ through $(2, 1)$. [3 marks]

4. Find the line perpendicular to $y = 2x - 5$ through $(4, 0)$. [3 marks]

5. Find a line through $(3, 7)$ perpendicular to $y = 4$. [2 marks]

6. Show that $3x + 2y = 6$ and $2x - 3y = 9$ meet at right angles. [3 marks]