Practice worksheet | Linear equations and graphs

Testing parameter changes digitally

Name: _____ Date: _____

6 questions | 16 marks

1. Complete the outputs for $y = x + 2$ and $y = x - 1$ at $x = -1, 0, 1$. [3 marks]

2. Predict the change from $y = 4x - 2$ to $y = 4x + 5$ without plotting. [2 marks]

3. Where do $y = -x + 3$, $y = 2x + 3$ and $y = 5x + 3$ all meet? Explain. [2 marks]

4. For $y = mx + 2$, which value $m = 1$ or $m = 3$ gives the larger output at $x = -2$? Show both values. [3 marks]

5. Design two distinct lines that meet at $(0, -1)$, then verify the common point. [3 marks]

6. A graphing screen suggests $y = 0.5x + 2$ and $y = 0.5x + 2.1$ are the same line. Explain how to check. [3 marks]