Practice worksheet | Linear equations and graphs

Graphical solutions and intersection checks

Name: _____ Date: _____

6 questions | 14 marks

1. Verify that $(1, 4)$ lies on $y = 3x + 1$ and $y = x + 3$. [2 marks]

2. Find the intersection of $y = x + 1$ and $y = 3$. [2 marks]

3. Find the intersection of $y = 2x$ and $y = x + 2$. [2 marks]

4. Find the intersection of $y = -x + 5$ and $y = x + 1$. [2 marks]

5. A crossing of $y = 2x + 1$ and $y = x + 3$ is read as $(2, 6)$. Use checks to assess this. [3 marks]

6. Can $y = 2x + 1$ and $y = 2x - 3$ intersect? Explain. [3 marks]