Practice worksheet | Linear models and optimisation

Solving simultaneous equations graphically/algebraically/with technology

Name: _____ Date: _____

6 questions | 12 marks

1. Solve $x + y = 13$ and $x - y = 5$. [2 marks]

2. Solve $3x + 2y = 16$ and $x - y = 2$. [2 marks]

3. Find where $y = 4x - 3$ meets $y = x + 6$. [2 marks]

4. How many solutions do $x + 2y = 6$ and $2x + 4y = 15$ have? [2 marks]

5. How many solutions do $3x - y = 8$ and $6x - 2y = 16$ have? [2 marks]

6. A solver returns $(2, 5)$ for $4x - y = 3$ and $x + 3y = 17$. Verify it. [2 marks]