Practice worksheet | Functions and straight-line graphs

Simultaneous linear equations and intersection models

Name: _____ Date: _____

6 questions | 12 marks

1. Solve $y = 3x + 1$ and $y = x + 9$. [2 marks]

2. Solve $2x + y = 11$ and $x - y = 1$. [2 marks]

3. Solve $3x + 2y = 4$ and $x - y = 3$. [2 marks]

4. Classify $y = 2x + 1$ and $4x - 2y = 6$ by their number of simultaneous solutions. [2 marks]

5. Classify $x + 2y = 5$ and $3x + 6y = 15$. [2 marks]

6. Plan A costs 18 dollars plus 4 dollars per visit; Plan B costs 6 dollars plus 7 dollars per visit. At what number of visits are their costs equal? [2 marks]