Name: \_\_\_\_\_

1 Use substitution to check whether the coordinate pair (3, -6) is a solution to the following simultaneous equations. 3x + 2y = -32x + 3y = -12

2 Use substitution to check whether the coordinate pair (-2, 7) is a solution to the following simultaneous equations. 4x - 7y = -573x + y = -1 3 Solve the following pair of simultaneous equations using a graphical method. x - y = 1

2x + y = 11

4 Solve the following pair of simultaneous equations using a graphical method. y = 1 - 4x

y = 2x + 7

5 Using a graphical method, show that the following pair of simultaneous equations do *not* have a solution. y = 2x - 4

$$y = 2x - 4x - 2y + 9 = 0$$

6 Solve the following equations using a graphical method.  $y = x^2$ 

y = x + 6

7 Solve the following pair of simultaneous equations using the substitution method. y = 3x - 72x - 5y = 48

8 Solve the following pair of simultaneous equations using the substitution method. x + y = 12x - 3y = 17 9 Solve the following pair of simultaneous equations using the substitution method. 2x - y = 223x - 4y = 53

10 Solve the following pair of simultaneous equations using the substitution method. 4x = -1 - 3y6x - 2y = 5

Page 6 of 6