

# Master Maths 10 Worksheet 30

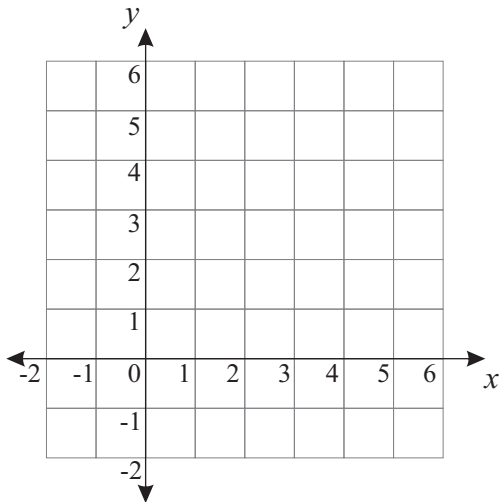
## Simultaneous Equations 1

# 30

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

1. (a) On the axes below draw the straight lines with the equations:

$$y = 2x - 1 \quad \text{and} \quad y = -x + 5$$



- (b) What is the point of intersection of these two lines?

- (c) Use the method of substitution of simultaneous equations to find this point of intersection.

2. Solve the following simultaneous equations using substitution.

(a)  $y = 3x$  and  $y = x + 6$

(b)  $y = 2x - 5$  and  $2y + 3x = -24$

3. Solve the following simultaneous equations using elimination.

(a)  $x + y = 7$  and  $x - y = 9$

(b)  $3x + y = 4$  and  $x + y = 0$