

# SOLVING SIMULTANEOUS EQUATIONS USING 2x2 MATRICES



EXERCISE 1: Calculate the values of  $x$  and  $y$  using matrices

a)  $2x - 2y = 3$   
 $-7x + 8y = 2$

b)  $x + 2y = 4$   
 $3x - 5y = 1$

Exercise 2: Rearrange and solve the following simultaneous equations using matrices

a)  $2x + 4y - 2 = 0$   
 $y - 11 = 3x$

b)  $x + 1 = y$   
 $2x + y - 4 = 0$