SECTION A

Solve by substitution	Solve by elimination	Solve Graphically
1. $4x - y = 52$ x + y = -2	3x - 2y = 5 $x - 2y = -1$	5. $3x - y = 3$ $2x + y = 7$
	4. $\frac{7x-1}{3} - \frac{2y+3}{5} = \frac{10}{3}$	6. $3x + 2y = 7 2x - 5y = 11$
2. $3x - 17 = y$	$\frac{5x+2}{4} + \frac{3y-2}{5} = \frac{16}{5}$	
$\frac{x}{5} = -\frac{y}{2}$	$\frac{-4}{4} + \frac{-5}{5} = \frac{-5}{5}$	

SECTION B

FOR EACH OF THE FOLLOWING FORM TWO (simple) EQUATIONS, IN TERMS OF x and y which can be used to solve the problems (you do not need to solve the problems).

- 7. If x is the smaller number and y is the larger number, find two numbers where three times the smaller exceeds the larger by 5 and the sum of the numbers is 11.
- 8. If 3 is added both to the numerator and the denominator of a fraction the result is equivalent to $\frac{4}{5}$. If 2 is subtracted from the numerator and the denominator of the original fraction, the new result is equivalent to $\frac{3}{5}$. If x is the numerator of the original fraction and y is the denominator of the original fraction, Find the original fraction.
- 9. Mr. Knight bought five sheep and six goats for \$183. From the same market Mrs Langton bought ten sheep and three goats for \$204. What was the market charging for a sheep, \$x, and a goat, \$y?
- 10. For a concert, 1000 tickets are sold at either \$12 or \$18. The total amount received is \$9280. If x, \$12 tickets and y, \$18 tickets were sold, how many of each price was sold?
- 11. The relationship between two variables, x and y, is given by the equation y = px + q. If y = 3 when x = 2 and y = 10 when x = -3, write down two simultaneous equations. Solve these equations to find p and q.
- 12. In an examination, candidates score *x* marks for a correct answer and lose *y* marks for an incorrect answer. Moses got 15 questions correct, 4 incorrect and scored 63 marks. Joseph got 12 questions correct, 7 incorrect and scored 39 marks. Find *x* and *y*. How many marks would Sarah score if she got 16 questions correct and 3 incorrect?
- 13. A father's present age is x and his son's present age is y. The father is four times as old as his son is now; and six years ago he was ten times as old as his son was then. Find their present ages.