SUVA SANGAM COLLEGE YEAR 11 APPLIED MATHEMATICS WORKSHEET 9

Strand	Graphs
Sub-Strand	Graphs
Content Learning	To solve equation simultaneously
Outcome	
Reference from	Pg 84
Text	

Questions

	CONCEPT IN BRIEF:
	Elimination Method
	In this method a multiple of one equation is added to a multiple of the second equation to
	eliminate a variable. Either x or y can be eliminated.
	<u>Steps</u>
	1. One variable is selected and each equation is multiplied by some number to equate the
	term with this variable.The two equations are added or subtracted to eliminate this variable.
	 The two equations are added of subfracted to eminiate this variable. The remaining equation is solved.
	4. The result is used to solve for the other variable.
1.	Solve $2x - 5y = 1$ and $3x + 5y = 14$ simultaneously using elimination method.
	CONCEPT IN BRIEF:
	Method 2: Substitution method Steps.
	1. Choose a variable and make it the subject of the formula in one of the equations.
	2. Substitute this equation into the other equation and solve it.
-	3. Use the result to find the remaining variable.
2.	Solve the equation simultaneously using substitution method. x + 2y = 10 and $3x - 2y = 14$
	$\frac{x + 2y - 10}{\text{CONCEPT IN BRIEF:}}$
	Steps to sketch the graph.
	1. Write the coordinates of the vertex.
	2. Give the equations for the axis of symmetry
	3. Calculate the x intercept, let $y = 0$
	4. Calculate the y intercept, let $x=0$
2	5. Sketch the graph
3.	The equation is given as $y = (x - 1)2 + 2$.
	(a) Sketch the graph. Clearly show the intercepts
	(b)Give the coordinates of the vertex