# **SUVA SANGAM COLLEGE**

# **YEAR 10**

# **MATHEMATICS**

# **WORKSHEET 4**

Strand 2: ALGEBRA			
Sub-strand:	Factorizing and Simplifying Algebraic Expressions		
Content learning outcome	Analyze methods of factorizing algebraic expressions		

# Questions

No	<b>Concept in brief:</b> Factorize by common factor, difference of squares and perfect squares.					
1.	The expression $a^2 + 2ab + b^2$ when factorized is equal to:					
	A.	a – b	C.	(a-b)(a+b)		
	В.	(a+b)(a+b)	D.	(a-b)(a-b)		
2.	The expression $a^2 - 4^2$ when factorized is equal to:					
	A.	a – 4	C.	(a-4)(a+4)		
	В.	(a + 4) (a + 4)	D.	(a-4)(a-4)		
3.	Factorize the following:					
	(i)	8y + 2x				
	(ii)	$12y^2 - 36xy$				
	(iii)	$x^2 - 49$				
	(iv)	<i>y</i> <sup>2</sup> - 12 <i>y</i> + 36				