

Topic Test 1 Mark Scheme

Basic algebra - Higher

Q	Answer	Mark	Comments
1	$7n - 6n^2$	B1	
2	$a^2 - 4a$	B1	
3	$5x(2x - y)$	B2	B1 $x(10x - 5y)$ or $5(2x^2 - xy)$
4	$(3x^2 +) 36x$ or $36 = c^2$	M1	May be implied by 6 or -6
	6	A1	
	-6	A1	
5	$3(4x + 2) + 3(4x + 2) + 6(x - 2) + 6(x - 2)$	M1	oe
	$36x - 12$	M1	Expands brackets and collects terms Allow one error
	their $(36x - 12) \div 3$	M1	
	$12x - 4$	A1	SC2 $12x + 6$ and $6x - 12$ seen SC1 $12x + 6$ or $6x - 12$ seen
6	$6x - 6k = 5x + 4$	M1	
	$6x - 5x = 6k + 4$ or $x = 6k + 4$	M1	
	Explanation that $6k + 4$ is an even number eg shows that both terms are divisible by 2 or $6k + 4 = 2(3k + 2)$	A1	oe

Q	Answer	Mark	Comments
7	$10x^2 - 5x$ or $3x + 3$	M1	
	$5x(2x - 1) - 3(x + 1)$ or their $(10x^2 - 5x) - \text{their } (3x + 3)$	M1	
	$10x^2 - 8x - 3$	A1	
8	$21x - 3 - 6x - 24 + 2$	M1	Allow one error
	$15x - 25$	A1	
	$5(3x - 5)$	A1	