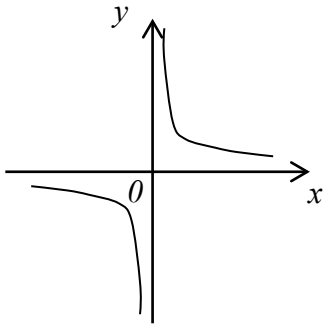
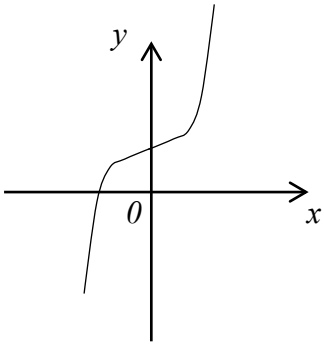


Topic Test 1 Mark Scheme

Further sketching graphs - Higher

Q	Answer	Mark	Comments
1(a)		B1	
1(b)		B1	
2	(0, 0), (1, 1)	B1	
3	(1, 1), (-1, -1)	B1	
4(a)	(0, 1)	B1	
4(b)	3	B1	

Q	Answer	Mark	Comments
5(a)	Maximum value when sine = 1, so angle is 90, $30 \times 3 = 90$	B1	
5(b)	$2.7 = 4.8 \times \sin 30t + 5.1$ and $-2.4 = 4.8 \times \sin 30t$	M1	
	$\sin 30t = -0.5$	A1	
	$30t = 210$	A1	
	7 am	A1	
6	$x = 90$	B1	
7(a)	$(-3, 12)$	B1	
7(b)	$x = 3$	B1	
	$(x + 1)(x - 3)$	M1	
	$y = x^2 - 2x - 3$	A1	
8	$(130, (0.766))$ $(230, (-0.766))$ $(310, (-0.766))$	B2	B1 for 1 or 2 correct
9	$(25, (0.9))$ $(335, (0.9))$ $(155, (-0.9))$	B2	B1 for 1 or 2 correct