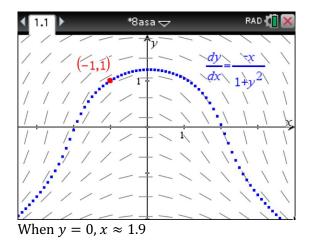
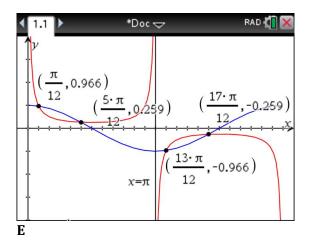
Sample solutions to the 2017 VCAA papers



Question 8a (Specialist Mathematics Examination 1)

Multiple-Choice Question 2 (Specialist Mathematics Examination 2)



Question 1 (Mathematical Methods Examination 1)

a.
$$f'(x) = \frac{(x+2) \times 1 - x \times 1}{(x+2)^2} = \frac{2}{(x+2)^2}, x > -2$$

b. $a'(x) = 3(2 - x^3)^2 \times -3x^2 = -9x^2(2)^2$

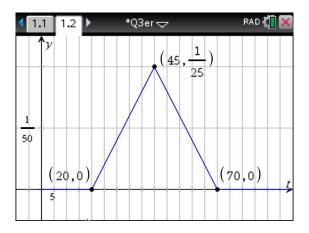
b.
$$g'(x) = 3(2-x^3)^2 \times -3x^2 = -9x^2(2-x^3)^2$$

 $g'(1) = -9(2-1)^2 = -9$

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Sample solutions to the 2017 VCAA papers

Extended-Response Question 3a (Mathematical Methods Examination 2)



Multiple-Choice Question 3 in Data Analysis (Further Mathematics Examination 1)

	1.1 🕨	*Doc -	~	R/	ND 🕻	X
•	^A circum	В	С	D		
=			=OneVar(
2	27.8	x	27.77			
3	28.4	Σx	277.7			
4	25.9	Σx²	7736.65			
5	28.3	SX := Sn	1.66403			
6	31.5	σx := σ _n	1.57863			
С5	=1.664031	.2497066			•	
D						

Extended-Response Question 1ci in Matrices (Further Mathematics Examination 2)

< <mark>1.1</mark> ► *	*Doc 🗢	RAD 🚺 🗙
$\begin{bmatrix} 35 & 24 & 60 \\ 28 & 32 & 43 \\ 32 & 30 & 56 \end{bmatrix} \rightarrow m$	35 28 32	24 60 32 43 30 56
m ⁻¹ . 491.55 428 487.6		4.65 4.2 3.8

Cost of one sandwich is \$3.80

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