

編號	载: 155 國立成功大學 102 學年度碩士班招生考試試題	
系所組別:環境工程學系丙組		
考	試科目:微積分	考試日期:0223,節次:3
*	考生請注意:本試題不可使用計算機	
5.	Water is flowing through a channel which has a cross-section in the shape of isosceles trapezoid, as shown in Figure 2. If the two legs and bottom have the same length 1. Please find the maximum cross-sectional area. (15%)	1
6.	Final Please use a line integral to find the area of an ellipse: $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1.$ (10%)	gure 2

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