

#### **Lesson From America**

SMC Conference Saturday 5th March 2011

## **Nevil Hopley**

PT Maths George Watson's College Edinburgh

## This talk will have a....

**Beginning** Brief outline of the American experience.

#### Middle

Showcasing lesson activities. And some hands-on stuff.

#### End Will come too soon!

And you can download all that you see today from

#### www.CalculatorSoftware.co.uk/smc

# "The 2010 Anja S. Greer Conference On Secondary School Mathematics, Science And Technology"

#### Stirling SMC Conference, Scotland

1 Day only. You can attend 4 standalone workshops. That's it.

#### Anja S. Greer Conference, USA

5 Days long. Choose two courses to follow over the 5 days. Each course has a 2 hour workshop each day. You can also attend 4 other standalone workshops each day.

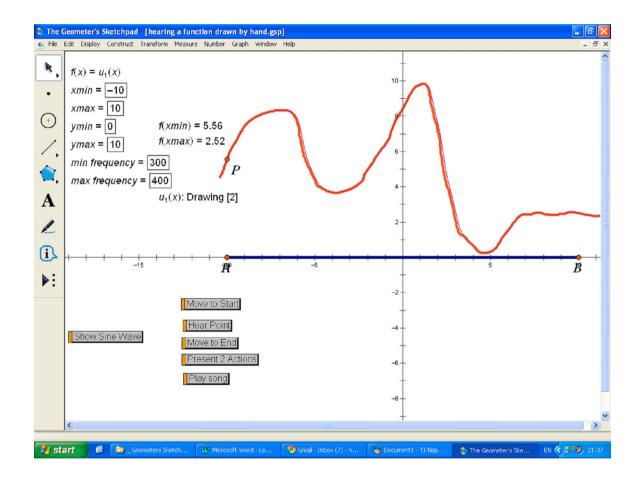
## **Activities from the Courses**

Geometer's Sketchpad Noisy Graphs

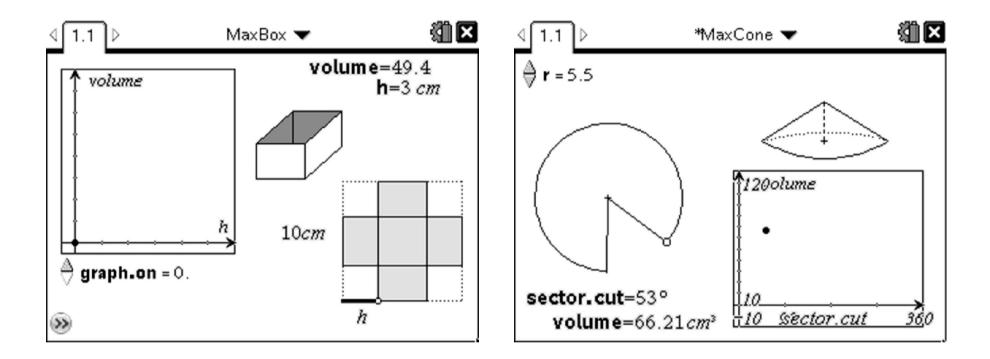
TI-Nspire Max Box & Max Cone Warehouse Problem Two or Root Two Teaching Maths Using Computer Algebra Systems

### Activities from the Standalone Workshops TI-Nspire Parabolic Reflectors Parabola Tangents

### **Noisy Graphs**

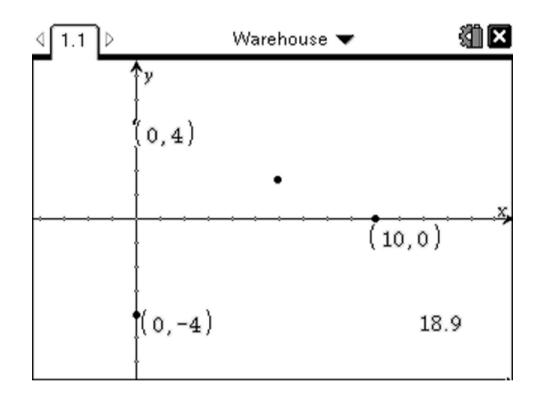


#### Max Box & Max Cone



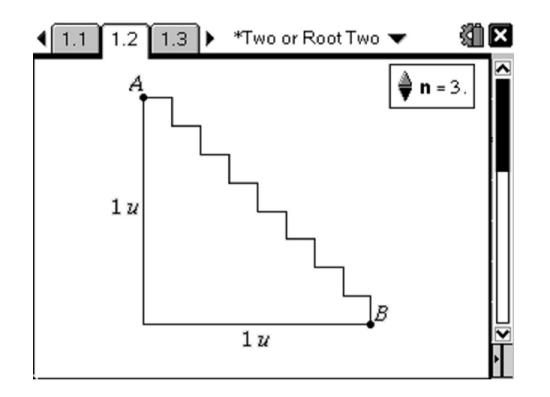
An old favourite ... and a new variant!

## Warehouse Problem



Optimise the location of a warehouse to be the minimum total linear distance from 3 outlets.

### **Two or Root Two**



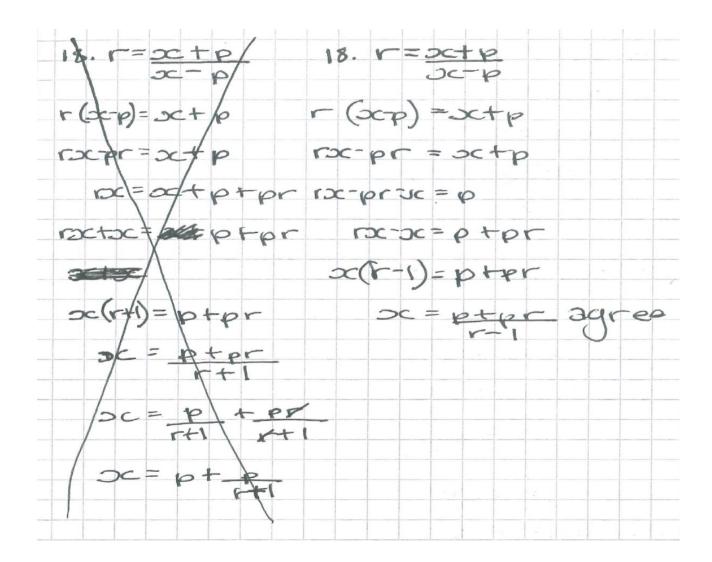
When is a limit ... not a limit?

## **Teaching Maths Using Computer Algebra Systems**

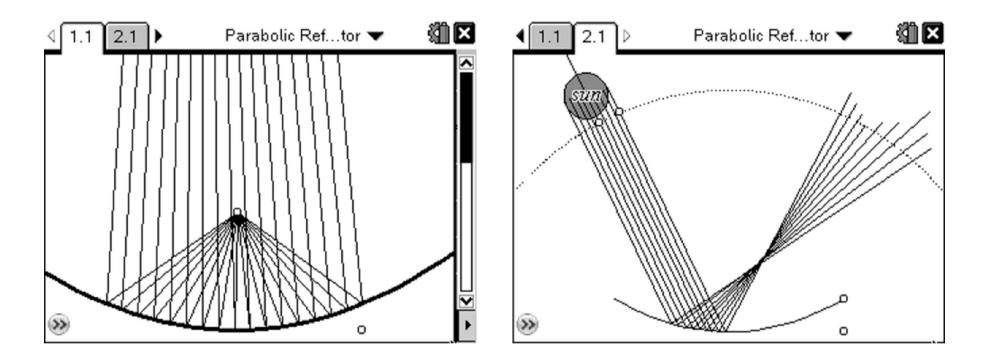
	(i)
© Make the following read as x=	
$r = \frac{x + p}{r}$ $r =$	<u>x+p</u>
<u>x-p</u>	<u>x-p</u>
	₩ 2/99



#### **Elizabeth's Jotter**

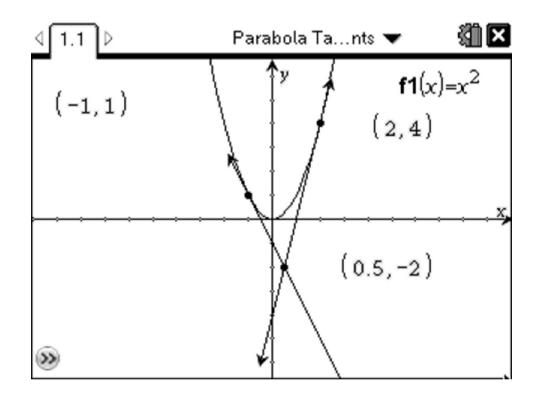


#### **Parabolic Reflectors**



Why we should teach students about the quadratic function!

#### **Tangents to a Parabola**



Investigate the connection between the coordinates of tangent points on a parabola and the intersection point of these tangent lines. Want More of 'Lesson from America'?

#### www.CalculatorSoftware.co.uk/smc

Thank You for choosing to attend this session.