



# **Two-Minute Treasures**

**Session 330**

**Saturday 26 February 2011**

**10:00 –11:00am**

**Nevil Hopley,  
Edinburgh, Scotland**

**T3 National Trainer**



# The Next Hour

## Objective

Show you 10 quick-to-make Nspire constructions.  
Talk about how these constructions can then be used.

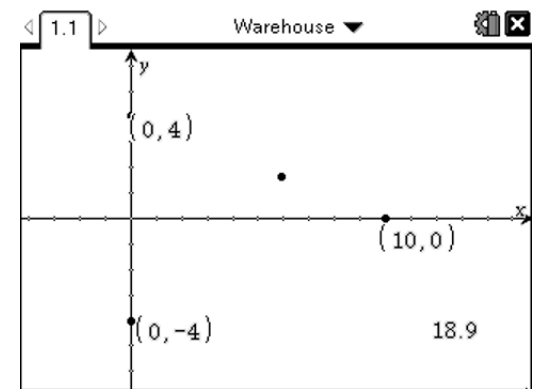
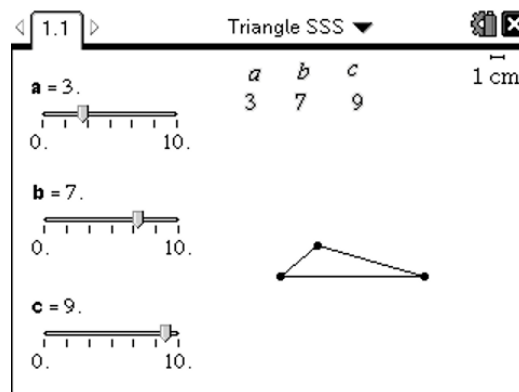
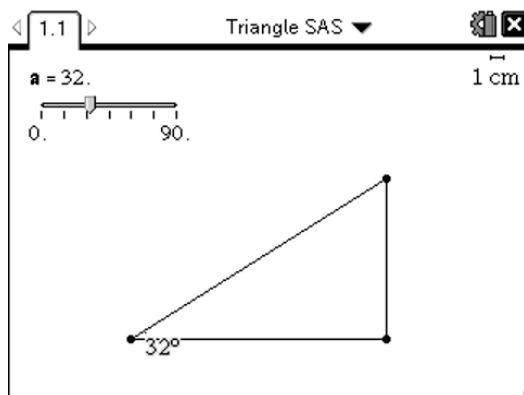
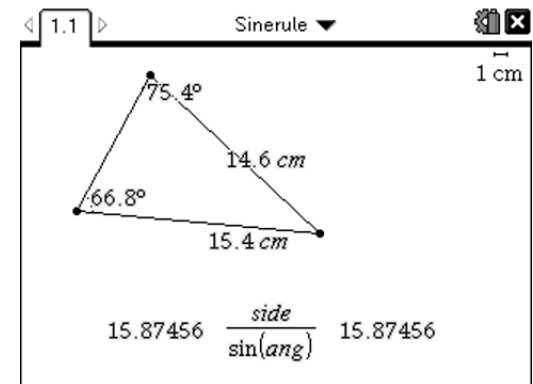
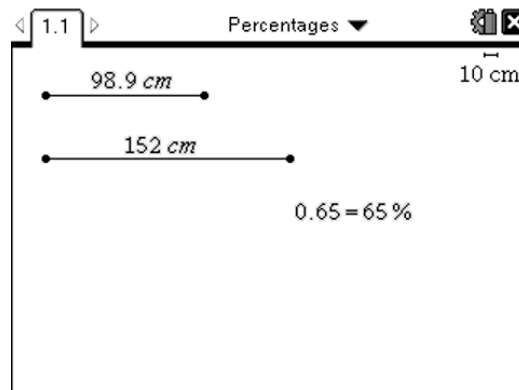
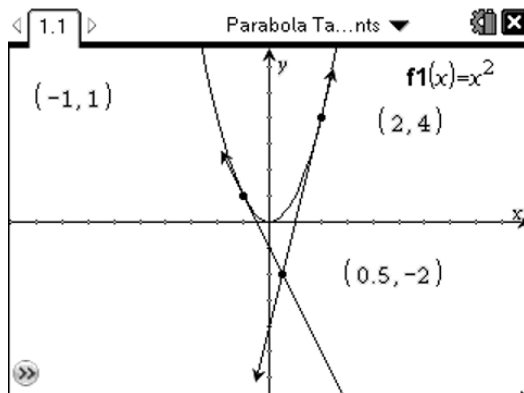
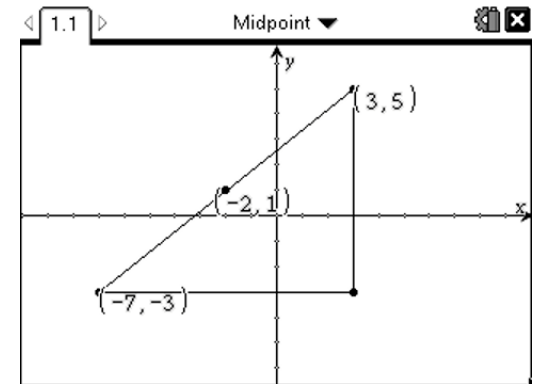
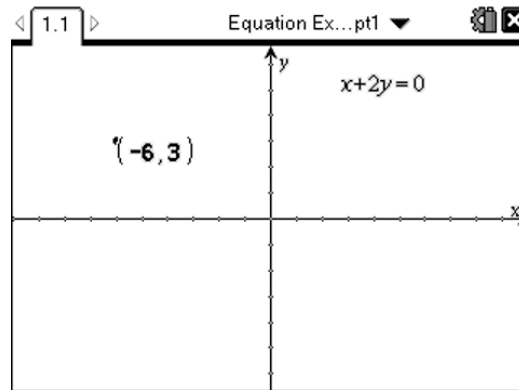
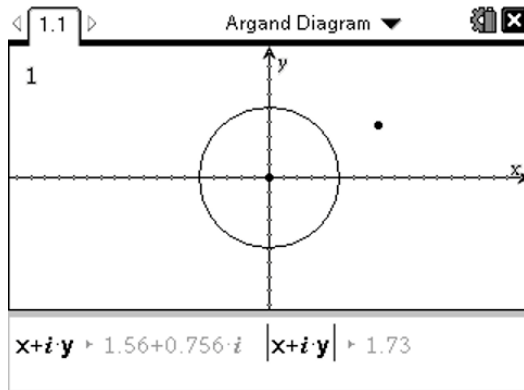
## How

Show you videos of their constructions  
*(or I can do them 'live' for you!)*

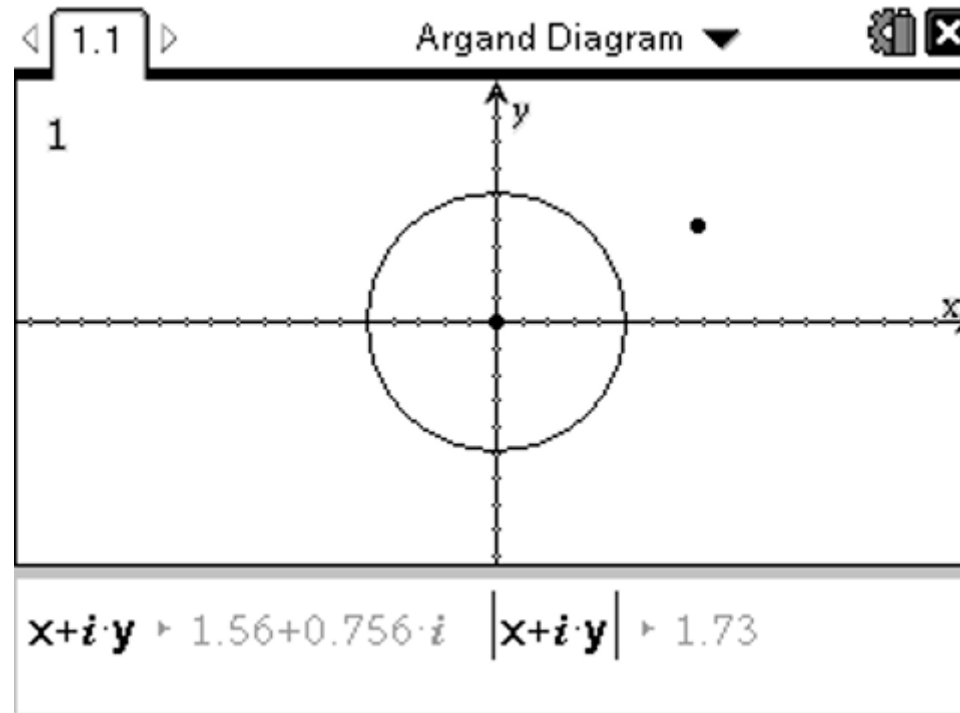
Lesson anecdotes and your ideas on their use.

**And you can download all that you see today – and more - from**

**[www.CalculatorSoftware.co.uk/twominute](http://www.CalculatorSoftware.co.uk/twominute)**

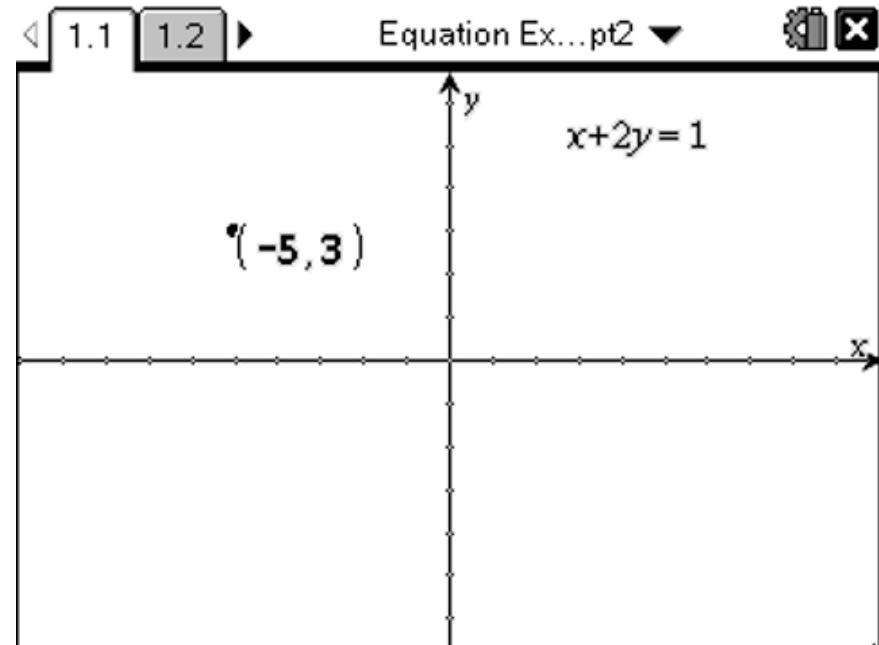
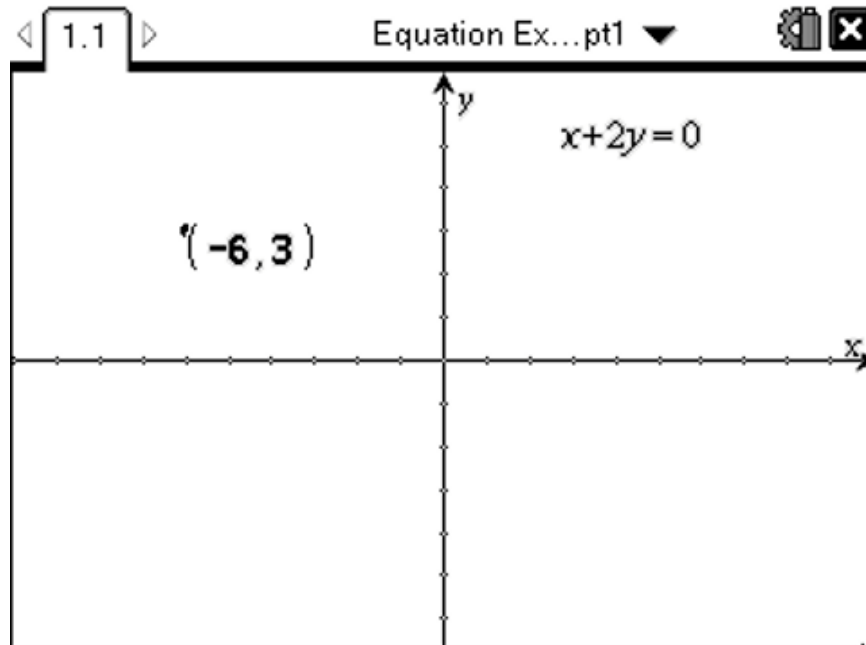


# 1. Argand Diagram



**Exploring properties of points on the Complex Number Plane**

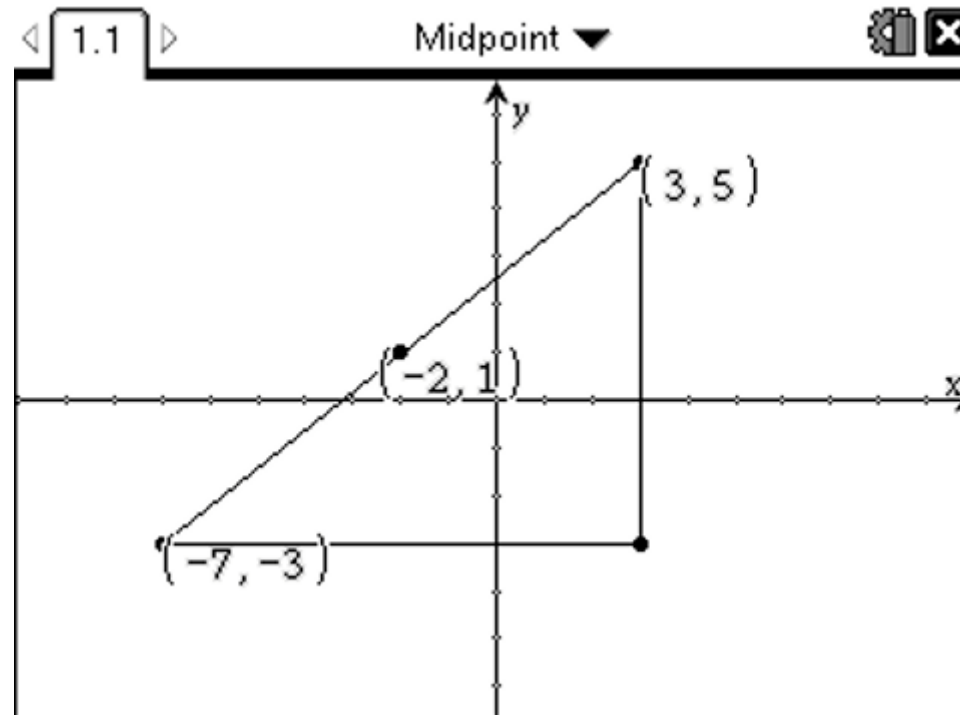
## 2. Equation Explorer Parts 1 & 2



**Exploring integer valued points that satisfy one (or more) equations.**

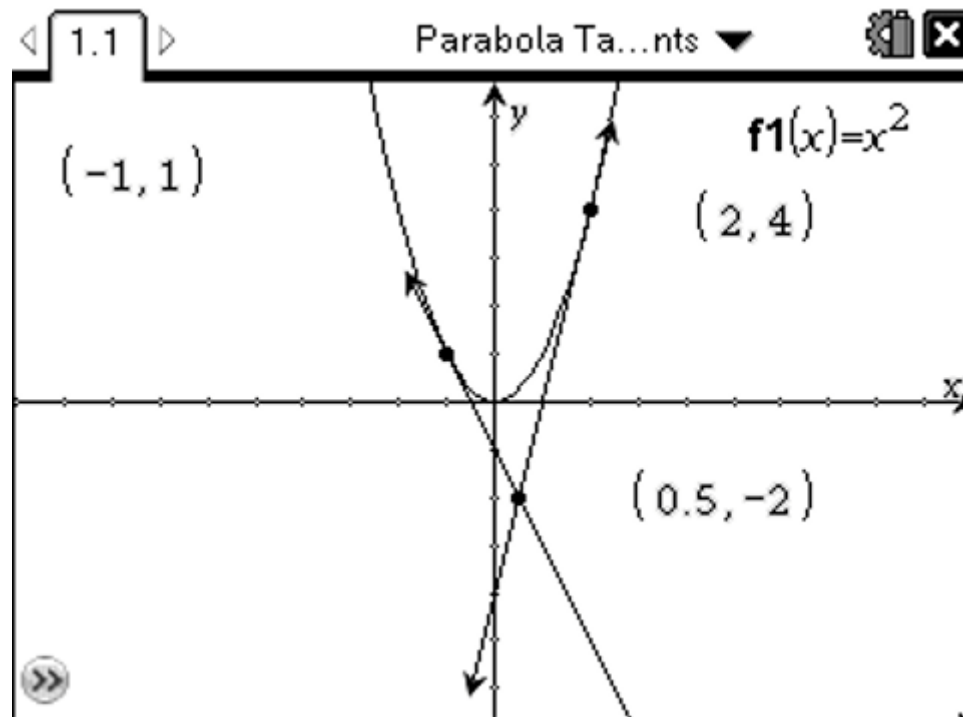
**Capture solution points as you find them!**

## 3. Midpoint



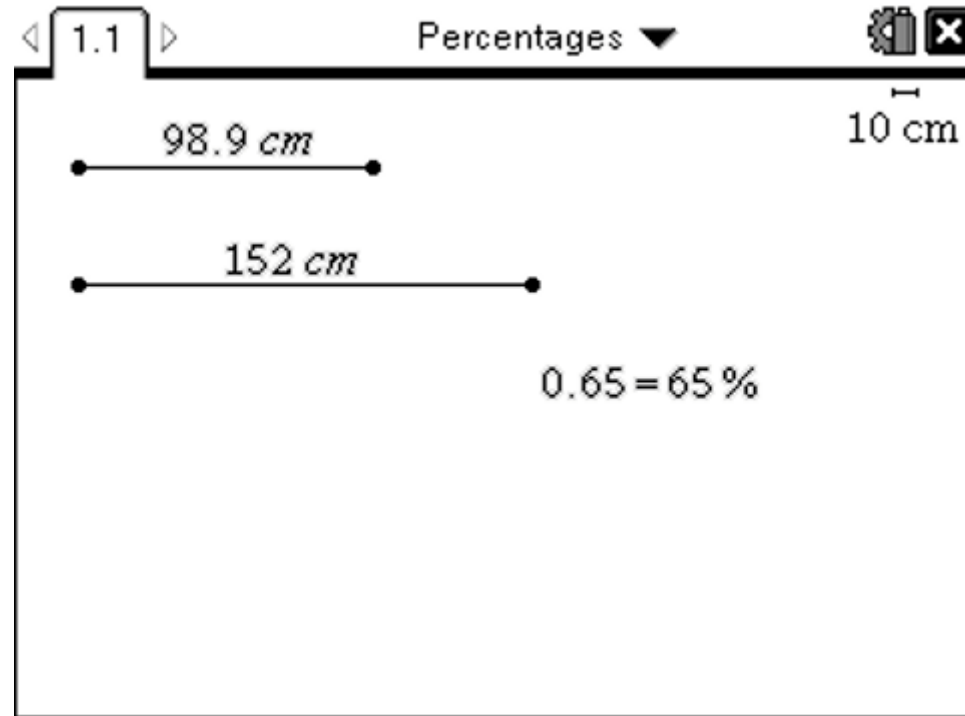
**Construction of a right-angled triangle.  
How to work out the coordinates of a midpoint.**

## 4. Parabola Tangents



**Investigate the connection between the coordinates of tangent points on a parabola, and the intersection point of these tangent lines.**

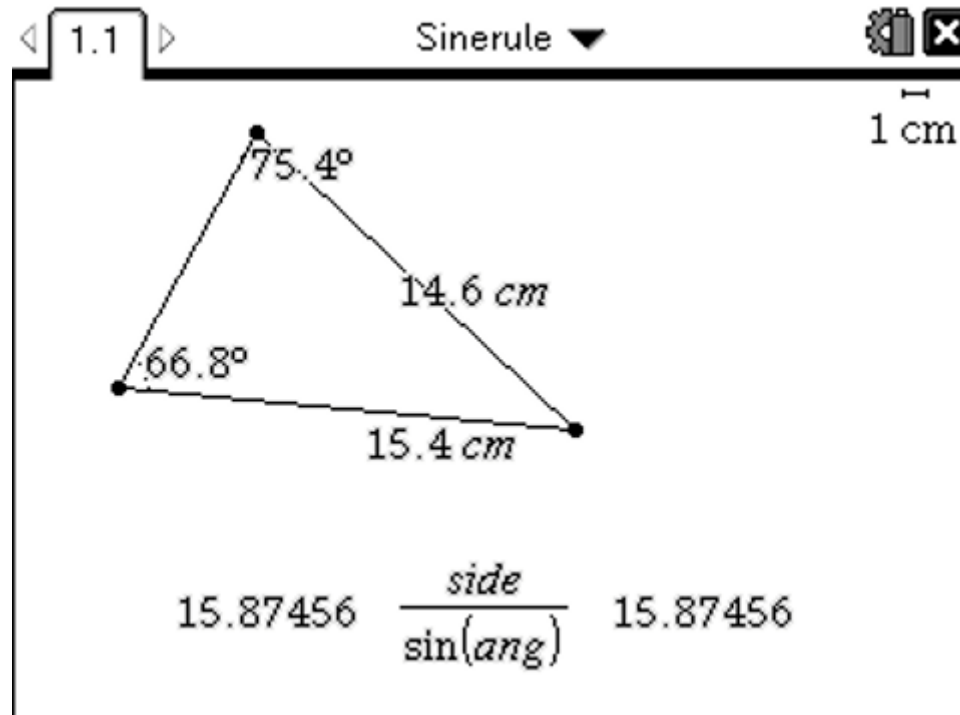
# 5. Percentages



**Explore how two quantities are linked in percentage terms.**

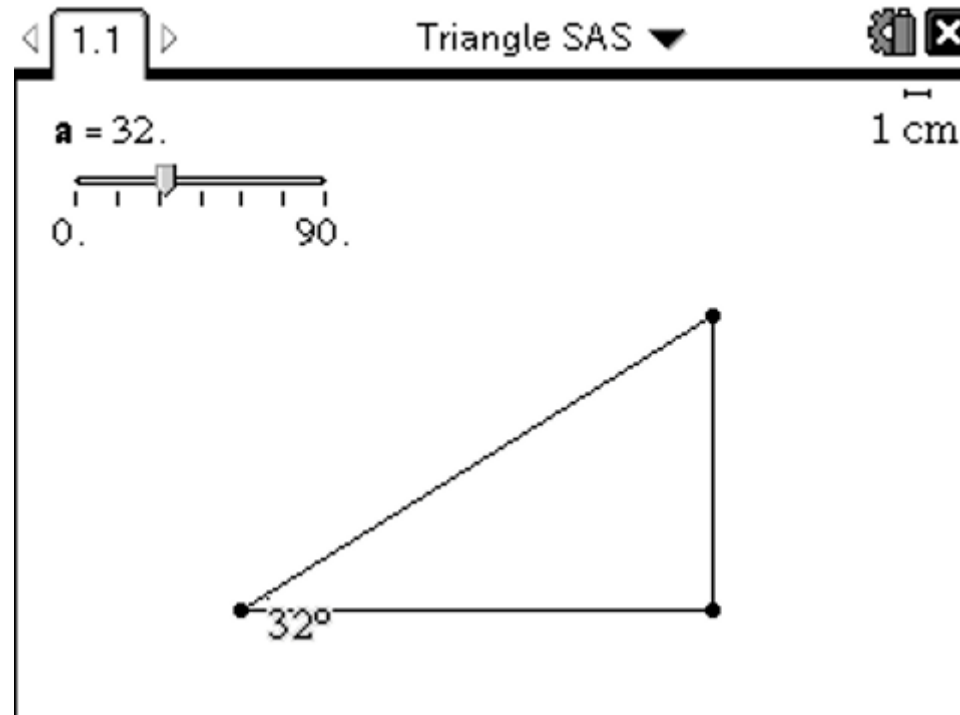


## 6. Sine Rule



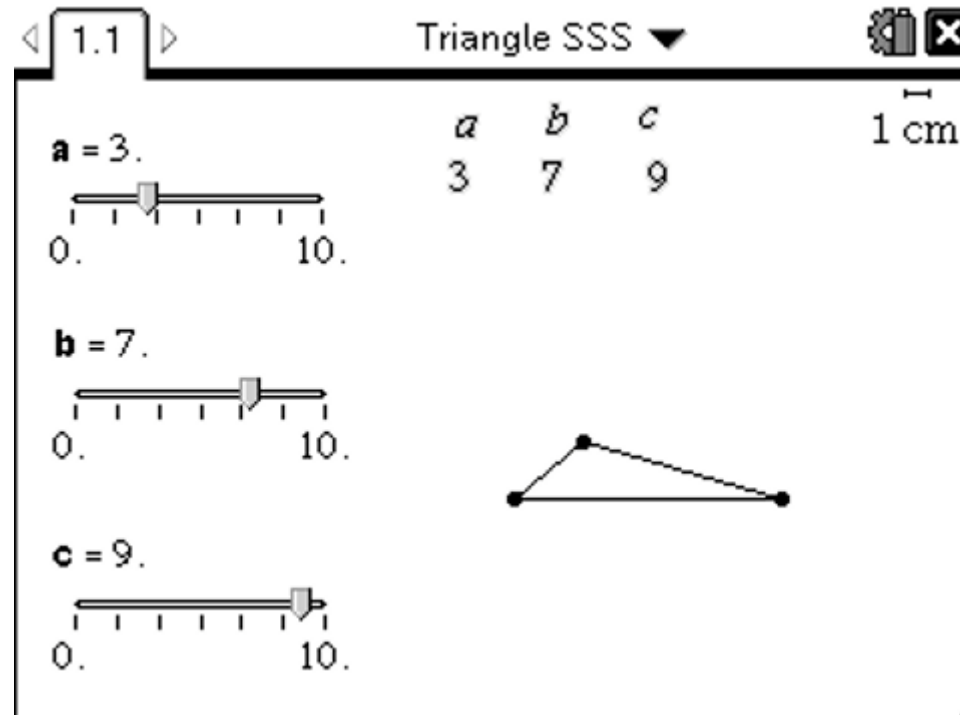
**Explore the inner workings of the Sine Rule**

## 7. Triangle SAS



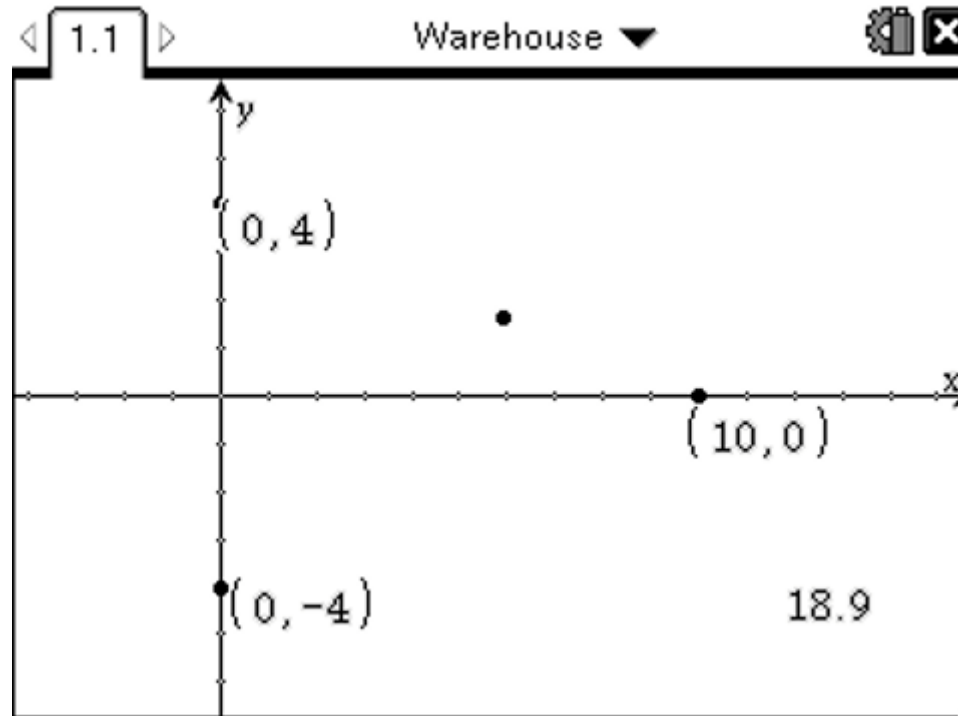
**Control the angle of a triangle allowing work on similar triangles, or introduction to trigonometry.**

## 8. Triangle SSS



**Explore the condition required for 3 lengths to be able to form a triangle.**

# 9. Warehouse



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

**Thank You for Attending this Session**

**All videos, tns files and  
support worksheets can be downloaded from:**

**[www.CalculatorSoftware.co.uk/twominute](http://www.CalculatorSoftware.co.uk/twominute)**

**and you can contact me from there too.**

***Nevil Hopley  
Edinburgh, Scotland***