

Open Graph and Table.

We will explore how changing the coefficients p and q in the function

$$y = (x - p)^2 + q$$

Enter the function in y1 and tap EXE.

Note that we could use one of the many built in functions, shown below – tap , Built-In, and select a function.

Tap  to draw the function with the default slider values for p and q of 1.

Tap Resize to see the graph full screen.

The sliders can be dragged around to a convenient place.

File Edit Type

Sheet1 Sheet2 Sheet3 Sheet4 Sheet5

y1: $(x-p)^2 + q$

y2: □

y3: □

y4: □

y5: □

y6: □

y7: □

Math1 a b c d e f

Math2 g h i j k l

Math3 m n o p q r

Trig s t u v w x

Var y z () , → CAPS

abc ← ↵ ans EXE

Deg Real

File Edit Type

Sheet1 Sheet2

y= Dynamic Graph

Draw Shade

Sheet1 Sheet2

y1: $(x-p)^2 + q$

y2: □

y3: □

y4: □

y5: □

y6: □

y7: □

Math1 a

Math2 g

Math3 m n o p q r

Trig s t u v w x

Var y z () , → CAPS

abc ← ↵ ans EXE

Deg Real

Edit Zoom Analysis

Sheet1 Sheet2 Sheet3 Sheet4 Sheet5

y1: $(x-p)^2 + q$

y2: □

y3: □

y4: □

y5: □

y6: □

y7: □

p

q

Math1

Math2

Math3

Trig

Var

abc

Deg Real

Edit Zoom Analysis

Sheet1 Sheet2 Sheet3 Sheet4 Sheet5

y1: $(x-p)^2 + q$

y2: □

y3: □

y4: □

y5: □

y6: □

y7: □

p

q

Math1

Math2

Math3

Trig

Var

abc

Deg Real

Tap the left/right keys on the sliders or drag the slider to the left or right.

Observe how the graph changes.

Tap the slider options and choose Settings.

Choose the slider tab for the required parameter and modify the Min, Max and Step as required.

Tap OK to confirm changes.

Tap the slider options, choose Auto Play and then choose which parameter.

To stop Auto Play tap  or hold down the Clear (On/Off) key.

Tap  to close the graph window.

