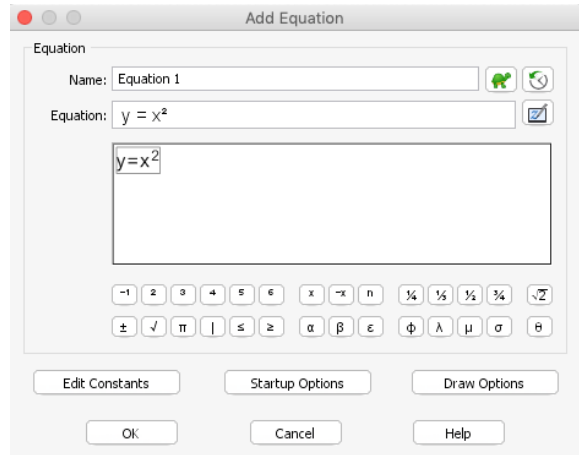


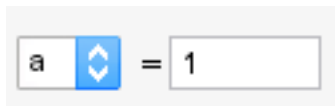
1. We are going to start by drawing  $y = x^2$

Enter Equation...

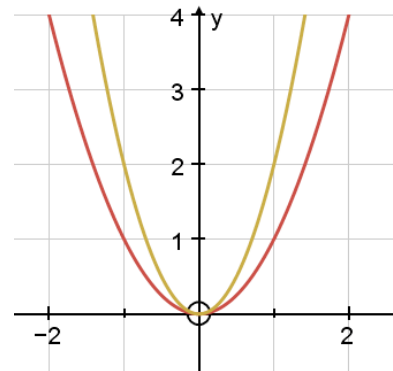
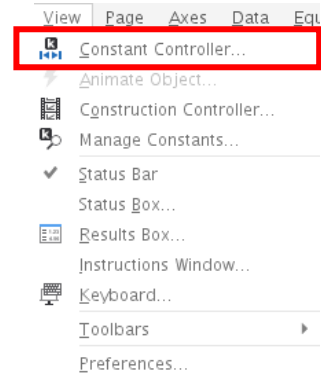
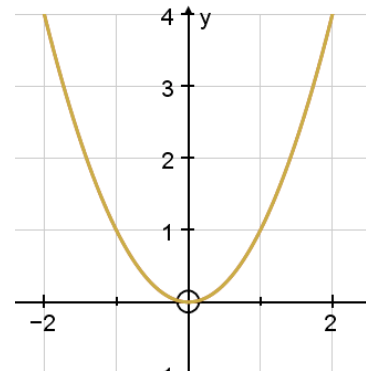


2. Enter a second equation

Enter Equation...  $y = ax^2$



Use the Constant Controller from View or use icon from the toolbar to change the value of a

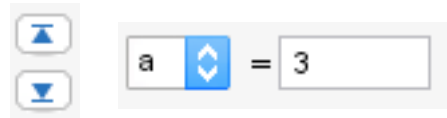




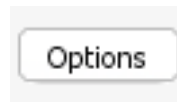
**3.** Use the **Constant Controller** to amend the step using the left/right arrows.



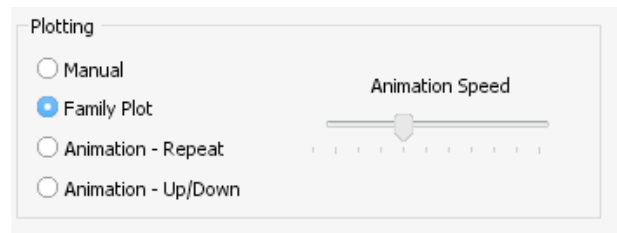
You can use Up/Down to change the constant value.



**4.** To display a family of plots. Click Options in the Constant Controller.

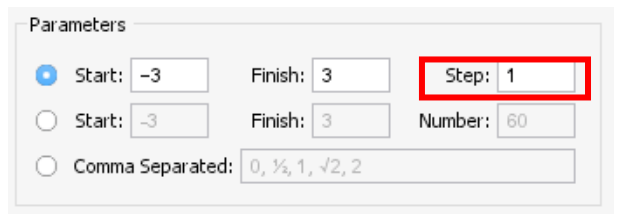


Select **Family Plot** in the Plotting section.

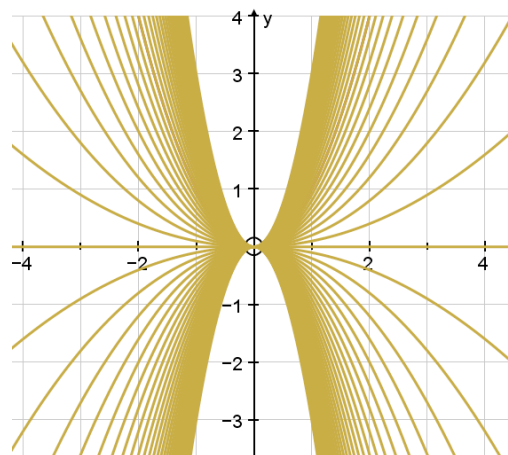


Select **Ok**

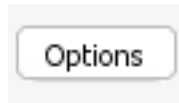
Select a Step of 1.



The graphs should all be displayed.

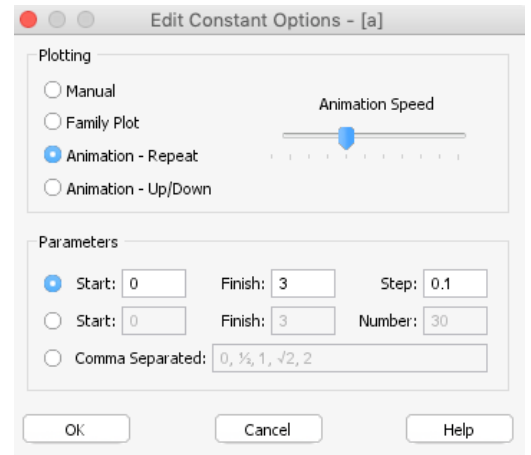


5. To animate click **Options** in the Constant Controller.



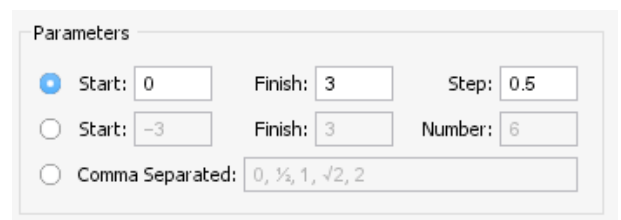
Select **Animation Repeat** in the Plotting section.

When you select **Animation Repeat** the **Animation Speed** will be enabled.

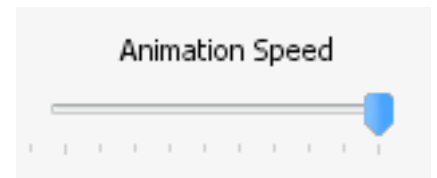
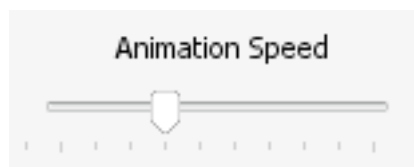


Select the range of values. For example, -3 to 3

Change the step. For example you might only be interested in



You can change the speed.



## Autograph Webinar

### Animate $y = ax^2$ : Tasks: 1 - 3

1. See if you can draw the Family Plot of  $y = ax^2$  for  $-5 < x < 5$  for step 1
2. Have a second attempt to plot  $y = ax^2$  but this time try to Animate  $y = ax^2$  with a step of 0.3

Try not to refer to your notes too much.