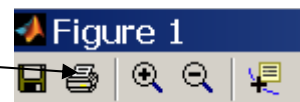


Quadratic Regression Model from a Picture

You are to use MATLAB. At a MATLAB prompt enter command **picturemodeler** . Enter your name as directed, then click START. Next enter the name of the picture. (Be careful to use the name exactly as shown in the table below.) Now click the button to enter the file name. On your picture choose a parabolic type arc you want to model by regression; there might be more than one you could choose. Next click the button Select Data Using the Mouse. Position the cross hair and click to select points on the arc you want to model. (Try to use just a few points; if it doesn't generate a good model you can try again.) When done selecting point press Q on the keyboard. Then click the QUADRATIC regression button. Look at the graph generated. (If you don't like the model generated click QUIT and try again. When you are satisfied with the model, click the Insert Graph Title Button and enter your name again for the title.

Finally you want to print out the picture and your model. At the top left of the screen click the printer icon to print. Do what is required to get a copy to hand in.



The picture file to use is based on the first letter of your last name. See the table below.

First letter of your last name	Name of the picture file to use to develop a quadratic model; some names contain capital letters or under scores; the name is case sensitive
A – C	commercefountain
D – G	fireboat
H – L	stlouisarch
M	HarlemRiverBridges
N – R	landscape_arch
S	rainbow_bridge_Niagra_Falls
T - Z	washingtonfountain