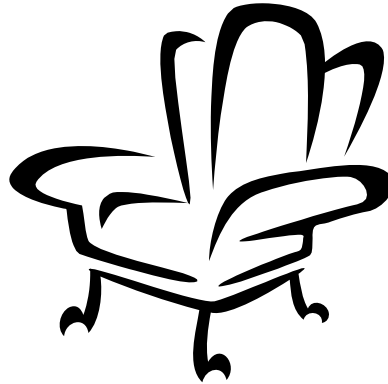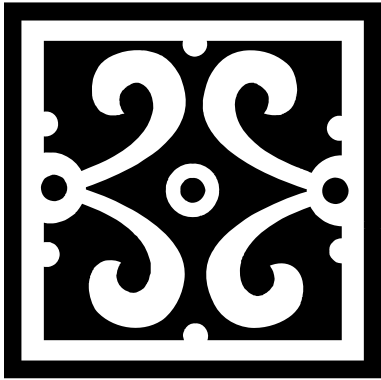**Chapter 2 Web Task**

Design an Item of Your Choice

Your school is hosting an annual drama event. You have agreed to help by designing some of the stage props.
- furniture
- background
- laser-etched window
- jewellery
- fabric
- carpet

Choose one of the items from the list and do the following.

a) Construct a design that uses a minimum of two families of functions.

b) List the equations of the members of each family

c) Find the *x*-intercept of each of your equations.

d) Share your design with another person.

e) Explain the relationship between the restrictions on domain and range and the context of your item.

f) Describe how changing the domain will affect your item and/or explain how continuing the same design in a repeated pattern will change the domains and the equations.