Multiple Transformations of Functions

As there is for algebra a correct "order of operations" called BEDMAS, there is also a correct order of transformations.

The correct order is: "**rst**"

- 1. Reflections
- 2. Stretches (or compressions)
- 3. Translations

When doing multiple transformations on a function, pick only a few key points and apply these transformations to these coordinate pairs.

For simple functions the key points with be the "corners" and the "ends".

For continuous functions like $y = x^2$ pick selected points on the curve.

Summary of Transformations

-f(x)

f(-x)

kf(x)

f(cx)

f(x) + d

f(x-c)