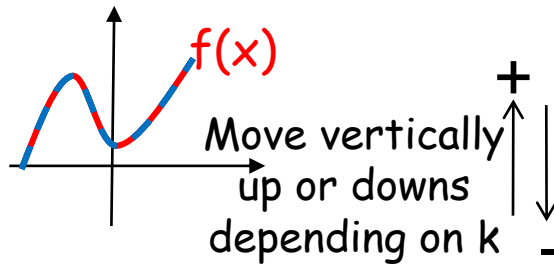
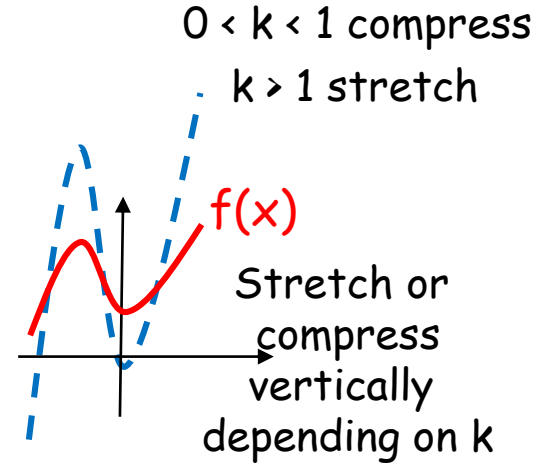


$$y = f(-x)$$



$$y = f(x) \pm k$$



$$y = kf(x)$$

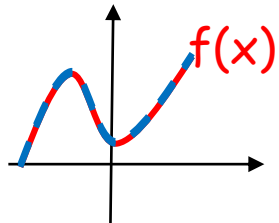
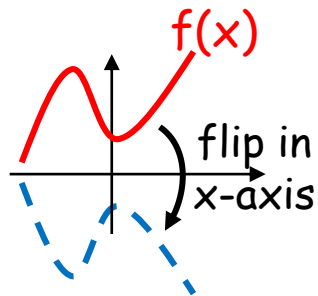
Remember we can combine these together !!

Graphs & Functions

$$y = -f(x)$$

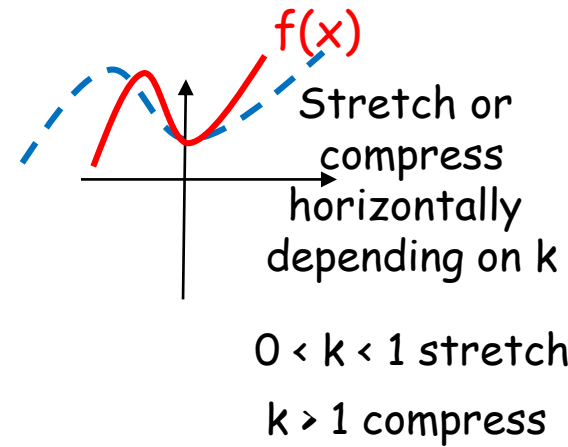
$$y = f(kx)$$

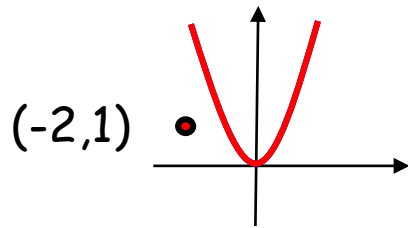
$$y = f(x \pm k)$$



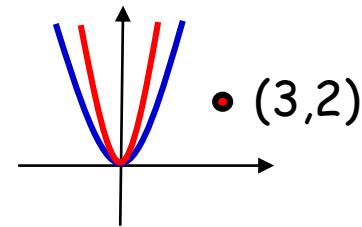
Move horizontally left or right depending on k

$- \longrightarrow$
 $\longleftarrow +$



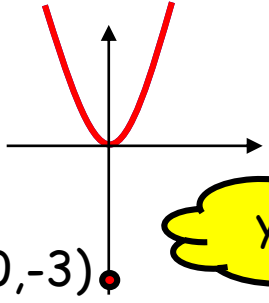


$y = (x + 2)^2 + 1$



$y = 2(x - 3)^2 + 2$

Graphs
of the form
 $y = k(x \pm a)^2 + b$



$y = x^2 - 3$

$y = x^2 + 2$

$y = 0.5(x - 1)^2 - 2$

$y = -(x + 1)^2 + 2$

