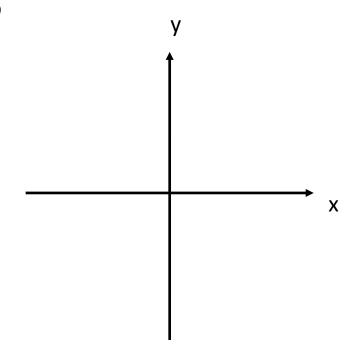
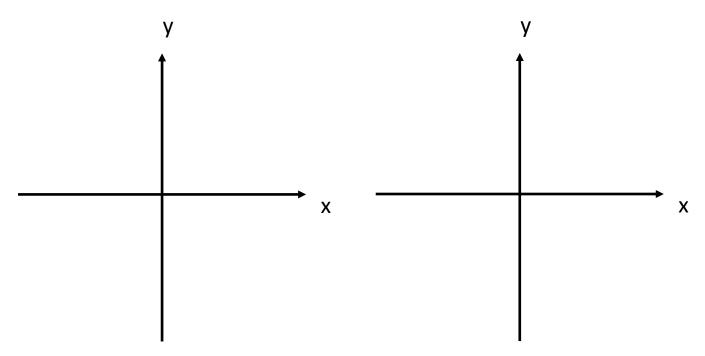
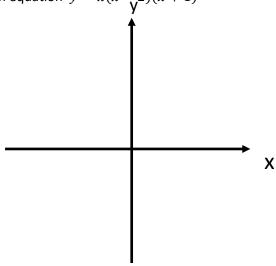
4F Stretching Graphs

- 1. Given that $f(x) = 9 x^2$, sketch the curves with equations:
- a) y = f(2x)b) y = 2f(x)

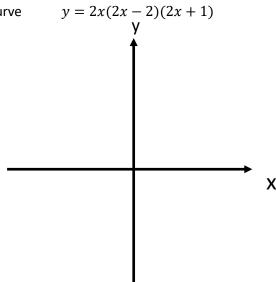




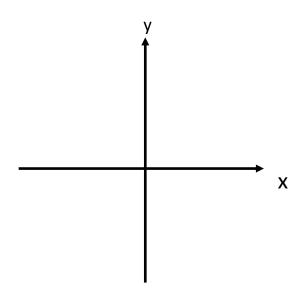
a) Sketch the curve with equation y = x(x - 2)(x + 1)



b) Hence, sketch the curve y = 2x



c) Based on your sketch in a), also sketch the curve y = -x(x-2)(x+1)



3. On the same set of axes, draw the graphs of y = f(x), y = f(-x) and

$$y = -f(x)$$
 where $f(x) = x(x + 2)$



