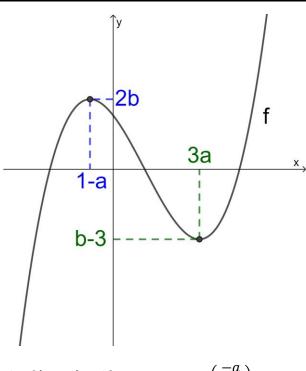
- The graph of f(x) has a local maxima at (1 a, 2b) and a local minima at (3a, b 3)a) Find the coordinates of the local maxima of f(x + a) - 2b
- b) Find the coordinates of the local minima of 2f(3x)



a)
$$f(x+a) - 2b$$
 is a translation $\begin{pmatrix} -a \\ -2b \end{pmatrix}$

We translate the graph

a units to the left and 2b units down

Local maxima becomes (1 - 2a, 0)

b) 2*f*(3*x*) is

- a stretch of scale factor $\frac{1}{3}$ parallel to the x axis, and
- a stretch of scale factor 2 parallel to the y axis

Local minima becomes (a, 2b - 6)



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