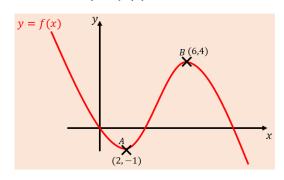
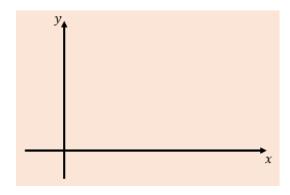
2F Multiple Graphical Transformations

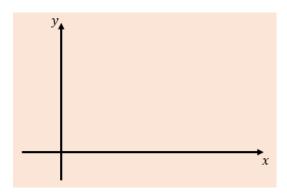
1. The diagram shows the sketch of y = f(x).



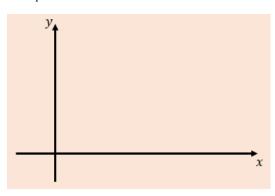
a) Sketch the graph of y = 2f(x) - 1



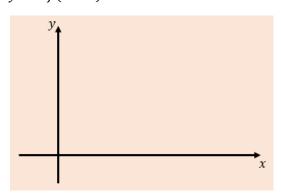
b) Sketch the graph of y = f(x + 2) + 2



c) Sketch the graph of $y = \frac{1}{4}f(2x)$



d) Sketch the graph of y = -f(x-1)

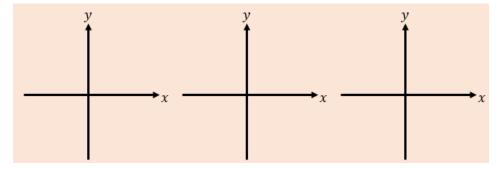


2. Given that:

$$f(x) = lnx, \, x > 0$$

Sketch the graphs of:

a) y = 2f(x) - 3



b) y = |f(-x)|

