**4G Unfamiliar Functions**

1. The diagram to the right shows a sketch of the curve $f(x)$ which passes through the origin. The points $A(1,4)$ and $B(3,1)$ also lie on the curve.

y

x

(1,4)

(3,1)

$$f(x)$$

1. Sketch the graph of $y=f(x+1)$

y

x

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

y

x

1. Sketch the graph of $y=f\left(x\right)-4$

y

x

1. Sketch the graph of $2y=f(x)$

y

x