## QT Transforming Graphs



1. The graph of $y=f(x)$ is shown.


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2. The graph of $y=f(x)$ is shown below. The coordinates of the maximum point of the curve are (-1,5)


Write down the maximum point of the curve with equation:
(a) $y=f(x-2)$
(1 mark)
(b) $y=f(x+4)$
(1 mark)
(c) $y=f(-x)$
(d) $y=f(x)-3$
(e) $y=-f(x)$
(1 mark)
(minimum point)

## QT Transforming Graphs

3. The graph of $y=f(x)$ is shown.

(8 marks)

## QT Transforming Graphs

4. The curve with the equation $y=f(x)$ is translated so that the point $(-3,0)$ is maped to the point $(-3,2)$.
Find the equation of the translated curve.

(2 marks)
5. The graph of $y=f(x)$ is shown on the grid. Graph A is a translation of $y=f(x)$. Write down the equation of graph A .


## QT Transforming Graphs

6. Shown below is the graph of $y=\cos x$

On the grid sketch the graph of $y=3+\cos x$

7. Describe the transformation which maps the graph of $y=\sin (x)$ to the following:
(a) $\sin (x-30)$
(2 marks)
(b) $-\sin (x)$
(2 marks)

