

AQA, OCR, Edexcel

GCSE

GCSE Maths

Graph Transformations, X Shifts
and Stretches Answers

Name:

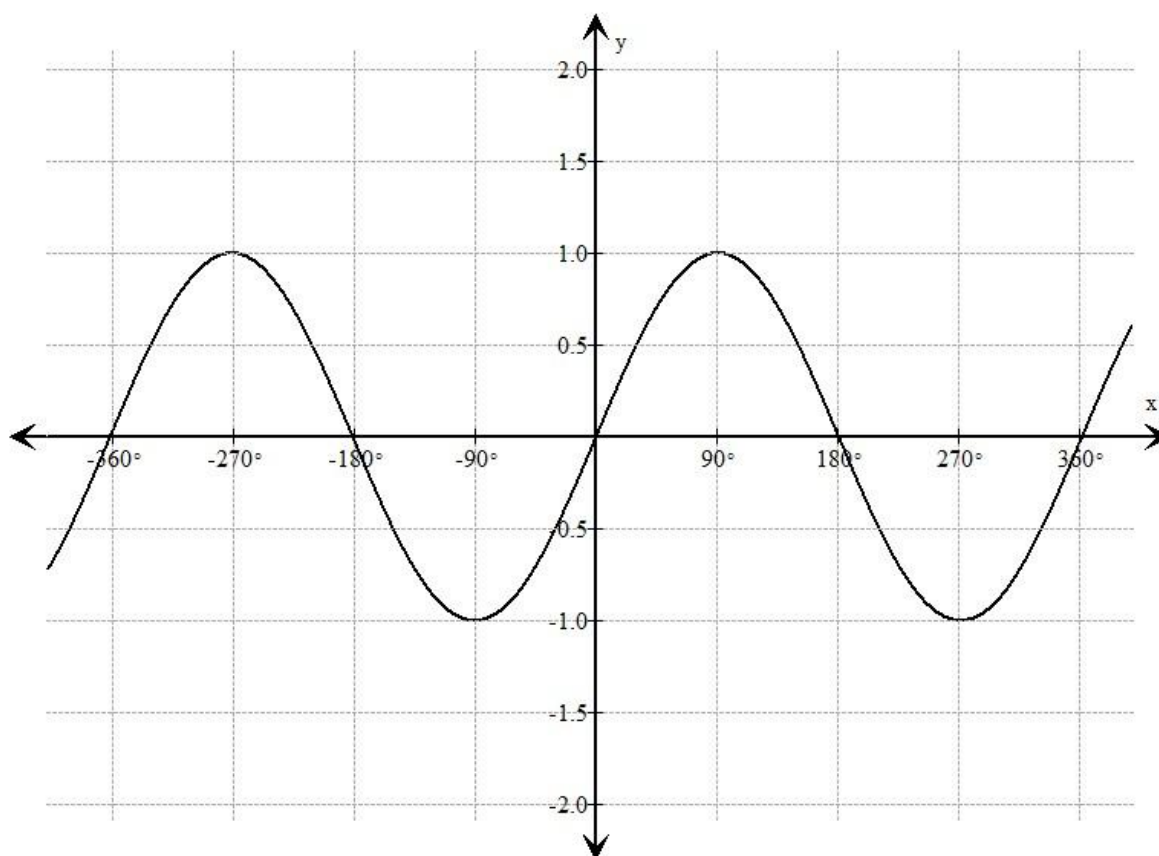
M M E

Mathsmadeeasy.co.uk

Total Marks: /12

Graph Transformations x-Stretch, x-Shift

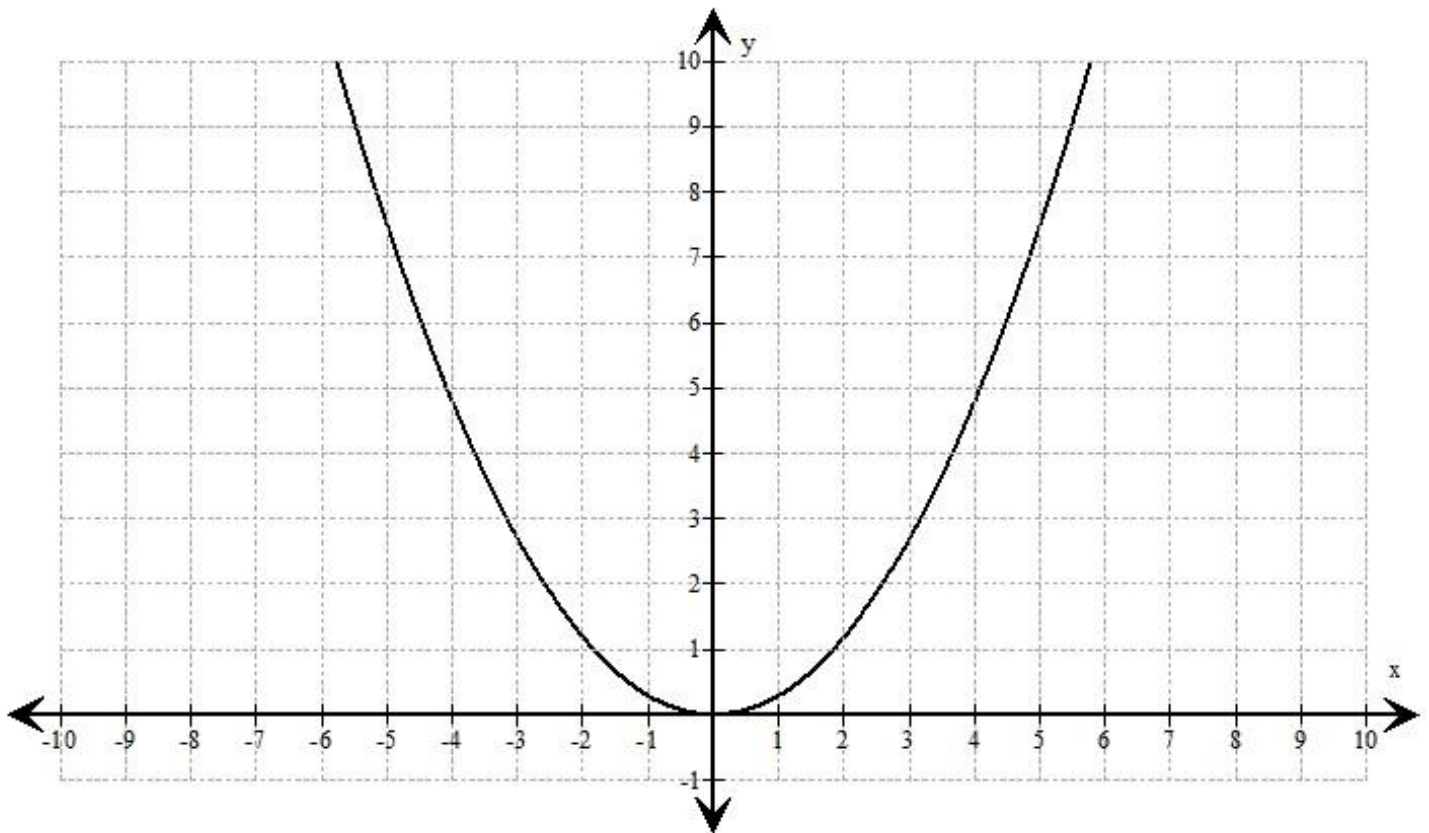
1. The graph of $y = \sin(x)$ is plotted below. Sketch the following transformations of $y = \sin(x)$ on the same set of axes.
 - a. $y = \sin(2x)$
 - b. $y = \sin\left(\frac{1}{2}x\right)$
 - c. $y = \sin(x + 90)$



(6 marks)

2. The graph of $y = f(x)$ is plotted below. Sketch the following transformations of $f(x)$ on the same axes.

- a. $y = f(2x)$
- b. $y = f\left(\frac{1}{2}x\right)$
- c. $y = f(x - 7)$



(6 Marks)