

AQA, OCR, Edexcel

GCSE

GCSE Maths

Graph Transformations, X Shifts
and Stretches Answers

Name:

M M E

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Total Marks: /12

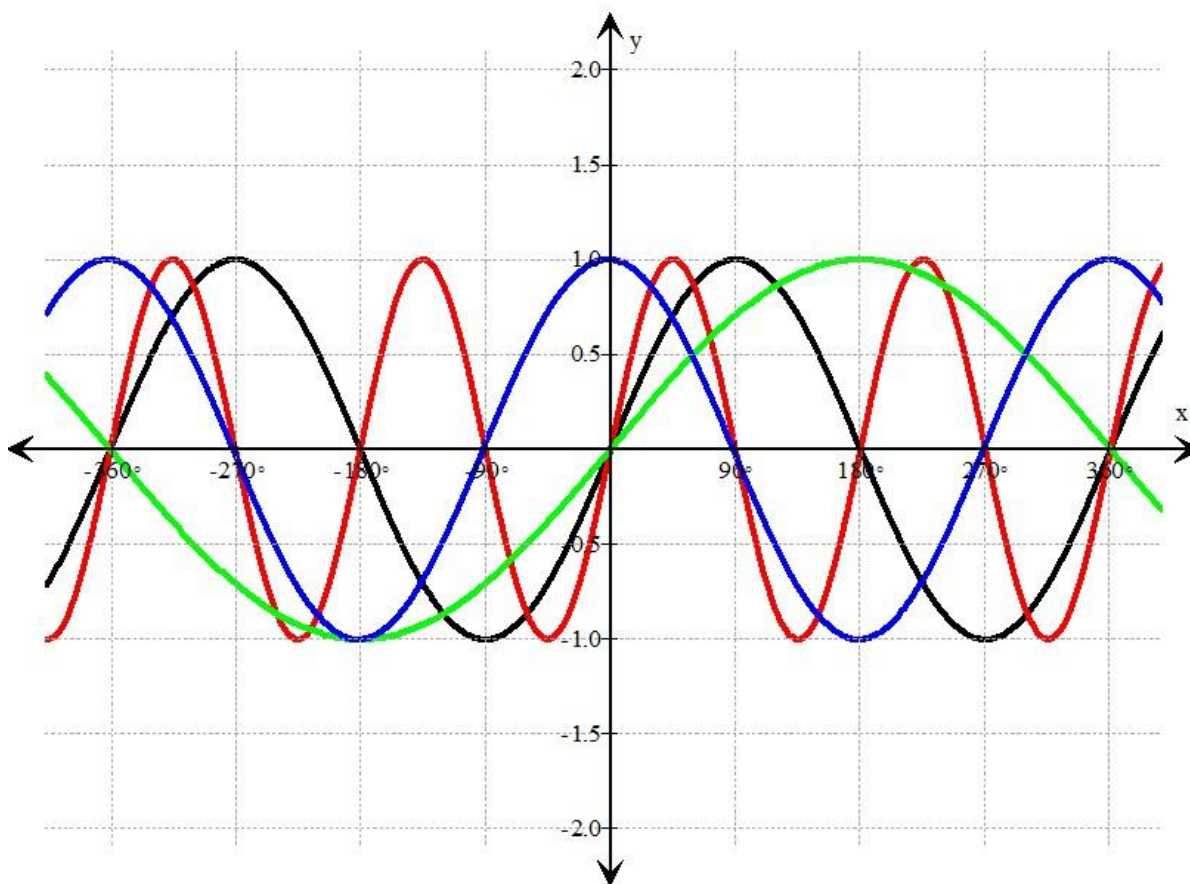
Graph Transformations x-Stretch, x-Shift

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. $y = \sin(x + 90)$



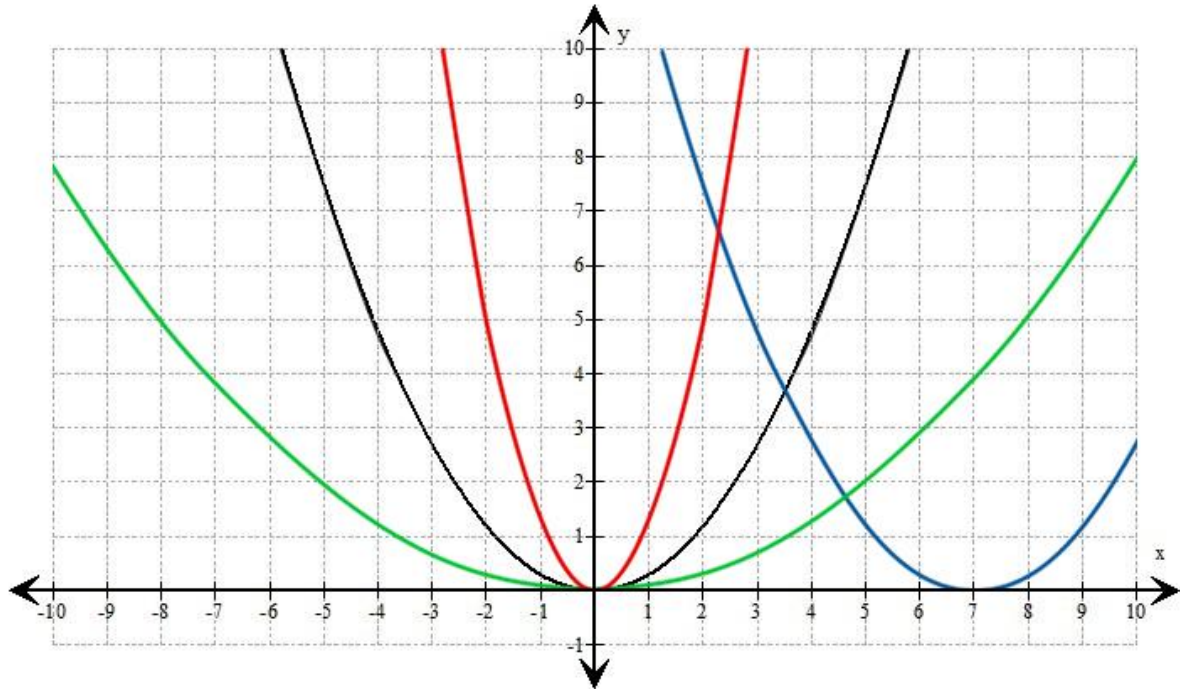
(6 marks)

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)